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SMITHSONIAN INSTITUTION INSTITUTE OF SOCIAL ANTHROPOLOGY PUBLICATION NO. 8

SIERRA POPOLUCA SPEECH

by

MARY L. FOSTER AND GEORGE M. FOSTER





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MARY L. FOSTER AND GEORGE M. FOSTER

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LETTER OF TRANSMITTAL

SMITHSONIAN INSTITUTION,
INSTITUTE OF SOCIAL ANTHROPOLOGY,
Washington 25, D. C., June 25, 1947.

Sir: I have the honor to transmit herewith a manuscript entitled "Sierra Popoluca Speech," by Mary L. Foster and George M. Foster, and to recommend that it be published as Publication Number 8 of the Institute of Social Anthropology.

Very respectfully yours,

George M. Foster, Director.

Dr. Alexander Wetmore, Secretary of the Smithsonian Institution.

II



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Sierra Popoluca Speech

By Mary L. Foster and George M. Foster

INTRODUCTION

In the southeastern part of the State of Veracruz, at the north end of the Isthmus of Tehuantepec, are four small groups of Indians who speak languages known to themselves and their neighbors as Popoluca. The name is from the Aztec "popoloca," applied in a deprecating sense to a number of backward Mexican groups. different languages exist. Texistepec Popoluca, Oluta Popoluca, and Sayula Popoluca are limited to the villages of the same name. Sierra Popoluca is spoken in about 25 villages and settlements in the mountainous area between Lake Catemaco and the Tehuantepec railway, by perhaps 10,000 persons. All four languages are correctly classified in the Mixe-Zoque family, and because of the collective term "Popoluca" it usually has been assumed that they form a third basic division of this stock and that differences within this division are less pronounced than between these languages and Mixe and Zoque. Actually, the name "Popoluca" has given a false impression of linguistic relationships within the Mixe-Zoque family. In a strictly analytical sense there are but two basic divisions, Mixe and Zoque, each composed of a number of distinct, not mutually intelligible languages. Two of the Popoluca languages, Oluta and Savula, fall in the Mixe division, along with the Western Mixe and the Guichigovi Mixe, both in Oaxaca. The other two, Sierra and Texistepec, must be classed with the Copainala and San Andres Tuxtla Zoque. in Chiapas, and with the dialects spoken in Santa Maria Chimalapa and San Miguel Chimalapa, Oaxaca, in the Isthmus of Tehuantepec. Data are as yet too limited to prevent more than this rough classification. Although the Sierra Popoluca commonly refer to themselves as Popoluca, in their own

language they use the expression [?]aηmáti (the) word to denote their linguistic group.

The data which form the basis of this study were gathered in the spring of 1941, when we lived for 10 weeks in Soteapan, cabecera of the municipio of the same name, which includes more than half of the Sierra Popoluca and which is the only municipio entirely composed of Popoluca-speaking inhabitants. The principal objective of the field trip was ethnographic research, and the linguistic work was carried on as a more or less accidental and unplanned side line. When we discovered that one of our principal informants, Leandro Pérez, at that time about 35 years of age, knew a great many stories, we decided to record as many as time permitted, in spite of our lack of formal linguistic field training. Eventually we found ourselves with about 300 pages of textual material. These data. in addition to phonetic and grammatical material which we gathered simultaneously, form the basis for this study. Although the speech here analyzed is that of Pérez, we made enough use of other linguistic informants to know that his manner of speaking is typical of Soteapan.

In the initial stages of the organization of our material Dr. Harry Hoijer aided us with many valuable suggestions. In December 1944, we returned to Soteapan for 10 days to recheck our data. During this period we had a number of stimulating conversations with Mr. Ben Elson, who at that time lived in nearby Ocotal Chico and who also was studying the language. Mr. Elson recently has published an excellent article entitled "Sierra Popoluca Syllable Structure," to which reference occasionally is made in this paper.² Dr. Stanley S. Newman has given generously of

¹ For more detailed information on the location of the Popoluca, see: George M. Foster. The geographical, linguistic and cultural position of the Popoluca of Veracruz. Amer. Anthrop., vol. 45, pp. 531-546. 1943.

² ELSON, BEN. Sierra Popoluca syllable structure. Internat. Jour. Amer Linguistics, vol. 13, pp. 13-17. 1947.

his time in reading preliminary manuscripts, and has made a number of suggestions which we have tried to incorporate in the finished paper. To these persons who have aided us, we wish to express our appreciation. No one is more aware than we of the limitations inherent in our data and manuscript. We hope, however, that a sketch of a heretofore undescribed language will be of use to those persons working in the field of comparative Mexican linguistics.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols have been used:

	Abbreviations		Abbreviations
adj.	-adjective	obj.	-object
ag.	-agentive	p.	-pronominal
asp.	-aspect	pas.	passive
at.	-attributive	per.	—person
ben.	-benefactive	part.	-particularizing
caus.	—causative	perf.	—perfective
com.	-comitative	pers.	—personal
comb.	—combining	pl.	—plural
comp.	-compound	pos.	—possessive
compl.	—completive	pred.	—predicative
cond.	—conditioned	pref.	—prefix
conj.	—conjunction	pron.	pronoun
const.	-construction	purp.	—purposive
def. art.	—definite article	quant.	—quantitative
dem.	—demonstrative	rel.	-relative
dur.	—durative	repet.	—repetitive
en.	—enumerative	res.	—resultative
ene.	—enclitic	sim.	—simulative
excl.	—exclusive	Sp.	—Spanish
gen.	—generalized	st.	-stative
ger.	—gerundial	sub.	-subject
i.	—intransitive	subj.	—subjunctive
imp.	—imperative	subord.	—subordinate
inc.	incompletive	suf.	—suffix
incl.	inclusive	t.	—transitive
ind.	—independent	tem.	—temporal
	t.—indefinite article	verb.	—verbalizing
indir.	—indirective		Symbols
inst.	—instrumentative		47
intro.	—introducing	,	d dot) long vowel
inter.	—interrogative	- 1	od) syllabic division
lim.	—limiting, limited	,	e accent) loud stress
lit.	—literally	10	e accent) medial stress
loc.	—locative	,	risk) verb theme
modif.	—modifying, modified	A	orefix, suffix
neg.	-negative		honemic recording
nom.	—nominalizing	[t] etc. p	phonetic recording

PHONOLOGY

1. PROSODIC FEATURES

1.1. Syllabic structure. Two basic types of syllables are found in Popoluca, (1) open or free and (2) closed or checked.³ They correspond to the following patterns. (Syllabic division is indicated by a period.)

(1). CV hú.kum fireplace, ?á:.pa mother (2). CVC hon bird, ?ép.ši bright reddish CVCC so?k fodder CVCCC *ta?ps twist rope

A syllable may begin with any consonant. The syllabic is always a single vowel.⁴

The syllable may terminate in a vowel, consonant, or consonant cluster.

1.2. Most commonly the morpheme corresponds to the syllable. Disyllabic morphemes are also frequent, and in some cases the morpheme consists only of a consonant.

1.3. The word. The word is a minimum free form composed of one or more syllables. It may be distinguished as such on the morphophonemic level by means of patterns of stress and internal sandhi. It may be distinguished on the morphologic and syntactic levels by means of patterns of affixation and phrasal position. It exhibits the following phonetic characteristics:

All words begin with a consonant.

Medial consonant clusters may consist of as many as four consonants, of which not more than three are parts of a single syllable.

Since a syllable may not begin with a vowel, there are no vowel clusters.

A word terminates in a long or short vowel, a consonant, or a consonant cluster.

4 The nasals and y occur as nonphonemic syllabics (2.6, 2.7).

1.4. Stress. There are three levels of stress, loud ('), medial ('), and weak (no accent). Loud stress is characterized by the force with which it is uttered, in contrast to the other two stresses. Medial stress, uttered with slightly less force, is a displaced loud stress. Thus, ?ikká? he killed him, when given a final loud-stressed suffix, becomes ?ikkà?yahtá they were killed. Both loud and weak stress are inherent in certain morphemes, e. g., some suffixes, such as the locative -hom, are loud-stressed, while others, such as the incompletive -pa, are always weak-stressed. Noun and verb stems have an inherent loud stress. The loud stress in a word shifts under certain conditions of suffixation, compounding, and phrasal juxtaposition. Thus, kó bak head > ko báktak hat (kó·bak + tak house) > ko·bàktakhóm in the hat (-hom loc, suf.) > ko báktakhò?m íťpa it is in the hat ('itpa it is). (Single syllable morphemes with inherent loud stress, such as -hom, when in isolation have not been written with stress.)

1.5. Phrase melody. Phrase melody is somewhat similar to that of English. A statement ends with a falling pitch on the final syllable. A question usually ends with a slightly rising pitch. A phrase-final syllable is accompanied by a falling pitch and followed by a pause.

1.6. Vowel length. One of the most difficult aspects of the Popoluca vowel is that of length. Both long and short vowels occur in free accented and unaccented and checked accented and unaccented syllables. Stress changes may result in the lengthening of a short vowel or the shortening of a long vowel. Our data are not adequate to permit fine phonetic distinctions, e. g., whether a stress-shortened long vowel is phonetically identical to a stress-lengthened short vowel, but the general tendencies may be pointed out.

(1) A long vowel in either a free or checked syllable which receives loud stress as a free form loses some of its length, especially in rapid speech, when through affixation the loud stress shifts to another syllable. This is particularly noticed in compounding words.

pu'čyúkma on the garbage (pu'č- comb. form of pú'či garbage + yúkma locator) sa'kká'm to the daughter-in-law (sa'k- comb. form of sá'ki daughter-in-law + -ka'm loc. suf.) čì'čahóm in the cradle (čí'ča cradle + -hom loc. suf.)

Blson lists an additional "special type" of syllable, so classed because of its infrequent occurrence. This type consists of syllables with an initial consonant cluster. His examples, which apparently include the only two clusters he has noted, are CCVC, tray, ti lad and CCVCC kru?y.či quail. Our data show two initial clusters only, both limited to the single morpheme. These are the clusters tr in the word trin. 16°ka¢ a kind of witch, and kw in the form %in.kwas.tak both of you (the syllable kwas appears in several contexts) < iñ- 2d. per. pos. p. pref. + ku- numerical prefix + was stem of "two" + -tak numerical suffix added only to derivatives of "two." On the phonetic level, at least, the u of the prefix ku is pronounced so lightly, if at all, that the cluster appears to exist. Since this apparently is a unique case, we were unable to devise a test to determine the true phonemic nature of this construction. Our data suggest the strong possibility that r occurs in Popoluca only in loan words, except in one case (2.9) in which it varies freely with n. Since except for the cluster kw, the true phonemic nature of which is uncertain, all initial clusters have r as the second consonant, we have hesitated to set up an additional syllable type. Elson gives the form rutuho pkay having bumps on the skin, to illustrate a syllable-initial r. Hence, it may well be that r is a true, though deficient, Popoluca phoneme.

(2) A short stressed vowel in a checked syllable tends to become phonetically long when, through morphological processes it comes to occupy a syllable final word medial position.

¢áka leave it! (*¢ak leave something) míña come! (*miñ come) péta sweep! (*pet sweep)

2. CONSONANTS

2.1. The consonantal system of Popoluca may be represented as follows:

	Bila- bial		Palato- alveolar	Velar	Glot- tal
Stops:					
Voiceless	p	t	ť	k	?
Voiced	b	d	ď	g	
Affricates		¢	ě		
Spirants		S	š		h
Nasals	m	n	ñ	η	
Semivowels	W		У		
Lateral		1			
Flap		г			

DESCRIPTION OF CONSONANTS

2.2. Stops. The voiceless stops p, t, and k are at bilabial, alveolar, and velar points of articulation respectively. The palato-alveolar t is blade-palato-alveolar in point of articulation, the tip of the tongue turns down. All are unaspirated except in syllable final position, e. g., mak fog, hap mouth, ampat I met.

The quality of the glottal stop depends upon its position in the word and syllable. In word initial it is unaspirated and almost inaudible, e. g., ?á·či uncle, older brother, ?é·ši crab, ?óma fog, ?úšpiň alligator.

In syllable initial and word medial position the glottal is clearly audible, e. g., má. a deer, ná. a chicle, pó. a piece.

In syllable medial position preceding k the glottal closure is practically simultaneous with that of the stop. Hence, in this position it is often difficult to hear, e. g., so'k grass fodder (Sp. "zacate"), mu'k grass. In syllable medial position preceding any other consonant it is clearly audible, e. g., hu'n owl, *he'n dig.

In syllable final position followed by another syllable the glottal is so strongly aspirated that the preceding vowel reappears as a voiced or unvoiced partial rearticulation following the glottal, e. g.:

[ká?a,ba] he dies (-pa inc. suf.)_____ /ká?ba/ [k Λ ?^,t Λ k] ladder (k Λ ? + t Λ k house)___ /k Λ ?t Λ k/

[tΛ?Δ.pΛ] fish	/t\(\dagger^2\pa\)
[mé?•.ši] wall	/mé?ši/
[há?s.yuk] younger sibling	/há?yuk/

In word final position the glottal is strongly aspirated, e. g., na? water, yu? hunger, ka? hand, ¢a? stone, *ka? die.

Syllables of the form consonant short vowel, when final in an utterance, are always pronounced CV?. This inorganic glottal disappears when the syllable is in included position, whereas a true glottal remains.

?á·či [?á·či?] uncle, ?a·ná·či pútpa my uncle goes out *či? give, ?ančí? pé?m I give it to that one

(Throughout this grammar and the accompanying text the inorganic glottal, though phonemic, will be omitted.)

- 2.3. The voiced stops b, d, d, and g are unaspirated and lenis. Their occurrence is restricted to word-medial syllable-initial position except for d which is also word initial in the single morpheme da no.
- 2.4. The voiceless affricates \(\psi\$ and \(\cdot \) correspond to the English values in "hits" and "church" respectively.
- 2.5. Spirants. The voiceless spirants s and š are at alveolar and palato-alveolar points respectively. The voiceless spirant h most frequently is an aspiration (cf. English "hat"). In syllable final position following a vowel it is more strongly spirantal, e. g., tuh rain, wõhno crane.
- 2.6. Nasals. The voiced nasals m, n, ñ, and η are at bilabial, alveolar, palato-alveolar, and velar points of articulation respectively. In word final position they are aspirated, e. g., ham lime, hon bird, $\xi a \cdot \tilde{n}$ serpent, hu $^{\gamma} \eta$ owl. In syllable final position following a glottal, as in the example hu $^{\gamma} \eta$, a nasal is given syllabic value. For descriptive purposes, however, since nonnasals also may occupy this final position, the syllabic quality of the nasals is considered nonphonemic.⁵
- 2.7. Semivowels. Bilabial w is voiced, rounded, slightly aspirated. Palato-alveolar y in word or phrase final ends in a very strong aspiration or voiceless off-glide, e. g., puy foot, ¢oy remedy, way hair. Following a glottal in the syllable form CV²C y is phonetically syllabic, e. g., ho²y become angry. It is, however, treated as nonsyllabic on the phonemic level for the reason indicated in 2.6.

⁸ Elson has an excellent treatment of this phenomenon. (See p. 13 of citation given in footnote 2.)

- 2.8. Lateral. The voiced lateral 1 occurs primarily in loan words, either Spanish or Aztec, e. g., lúpuhti wolf (Sp. "lobo"), paléna brown sugar (Sp. "panela"), túlin tule (Aztec), ťagálin spider (Aztec?).
- 2.9. Flap. The alveolar flap r corresponds to the Spanish single flap r. It is found principally in loan words or in Popoluca words and constructions that are atypical in nature. Its very limited occurrence in initial clusters already has been mentioned (p. 3, ftn. 3). In addition, it varies freely with n in the sequence of transitive pronominal prefix plus the benefactive prefix ^γaη-(6.5), the causative prefix ^γak- (6.6) and the comitative prefix na- (6.7).

[?]ana₁mátpa or [?]ara₁mátpa I speak with him [?]ananákpa or [?]aranákpa I carry something [?]ininákpa or [?]irinákpa you carry something [?]anakká[?]ba or [?]arakká[?]ba I kill him

These constructions in many respects do not follow the morphophonemic rules which govern other apparently similar phenomena (4.21).

2.10. When consonants dissimilar in points of articulation follow the nasals n, \tilde{n} , and η , a voicing in the form of the indefinite or shwa vowel ϑ tends to occur.

2.11. Geminate clusters excepting? actualize as long consonants.

?ančihhákpa I throw across (*čih throw +
 *hak cross)
yoʻmmának girl (yoʻm- comb. form of yóʻmo woman,
 + mának child)
miññé? he has come (*miñ come + -ne? perf. suf.)
?àpiččí·hi porcupine (?ápič thorn + čí·hi fox)
kuyyúkma up in the tree (kuy tree + yúkma locator)
watták large house (wat- comb. form of wáti big, +
 tak house)
?ikká? he killed him (?i-3d per. t.p. pref. + ?ak- caus.
 pref. + *ka? kill + # compl. suf.)
ku?ttá·p it is eaten (*ku?t eat + -ta· pas. suf. + -p
 inc. suf.)
?anhéppa I scratch it (*hep scratch + -pa inc. suf.)

2.12. Consonant distribution. All consonants occur in syllable initial position. p, k, and ? are the only consonants found in syllable medial position. All consonants except the voiced stops b, d, d, and g, and the alveolars l and r, are found in syllable final position.

Clusters of consonants observed in syllable final position are ps, ks, 'ps, 'ks, and 'plus a voiceless stop, an affricate, a nasal, or the semivowel y.

The clusters kw, kr, and tr are the only observed cases of syllable initial clusters.

Consonants in word initial and final position follow syllabic rules except that b, d, g, and η are not found initially. Word medial clusters do not consist of more than four consonants, and of these never more than three are in the same syllable. Permissible patterns for word medial clusters are -VC.CV-, -VCC.CV-, -VCCC.CV-, and -VC.CCV-. Word medial geminate clusters of consonants may be formed by the voiceless stops, the nasals (except for η), and by h, č, š, and y.

3. VOWELS

3.1. Vowel phonemes occur in two qualities, long and short. The distinctiveness of length as a phonemic feature of the vowel is shown by such minimal pairs as pok gourd container and po'k cornstalk, 'akpak a species of tree and 'a'kpak cheek bone, kanné' it has ripened and kanné' he was afraid, míši cat and mí'ši Oaxaqueno (from 'Mixe'').

Vowel length varies considerably as the result of stress shifts (1.6) and morphophonemic changes (4.18). Because of the relatively few minimal pairs encountered it was not possible in most cases to subject words characterized by absolutely defined vowel length to tests which would have determined the behavior of the length aspect of vowels under varying conditions. In some cases, doubtless, words we have written with a long vowel actually represent short vowels recorded in contexts in which they appeared in a lengthened form, and vice versa. Admittedly our notes leave much to be desired on this very important point.

3.2. Popoluca vowels may be represented phonemically as follows:

i, i u, u e, e Λ, Λ a, a ο, ο ο

3.3. i and i are high, front, rather close. They vary to open when syllable medial in checked syllables preceding nasals and š, or when preceded by p or ? and followed by k.

*?iť be, pí·ňah horse fly, píštak flea, *?i·š see, píkši bow, ?ikkó·ň he made him sit down

3.4. e and e are mid, front, unrounded. In most cases rather open, they become close when preceding y.

¢em urine, hć·pe tree gourd, ¢apméyñΛ? ocean (archaic form), ?éya also

3.5. a and a are low, central, unrounded, and constant in value. They have the approximate value of a in German "Mann."

pak bone, ?á·či uncle, čáhka dcaf mute

3.6. u and u are high, back, moderately close, rounded. They are somewhat more open preceding a nasal.

mu?k grass, hú·ki cigarette, tum one

3.7. A and A are central, tending to back, open, unrounded, slightly higher than double o in English "took." The lip position is more spread than for any English vowel.

tak house, na? water, wastén two

3.8. o and o are mid, back, semirounded. In free syllables they are rather close unless in nexus with k, when they are open; in checked syllables they tend to be open unless in nexus with y when they are close.

?óma fog, čó·mo woman, só·ki snail, kó·so knee, hos cave, *ho·t scratch, ¢ógoy spirit, hóyma tomorrow

3.9. Vowel distribution. There are no initial vowels in syllables.

All vowels may occur in word medial and final positions.

There are no vowel clusters. When through morphological processes two vowels fall in contiguous positions, an h arises to maintain vocalic identity.

hú hi roar (*hu· roar + -i nom. suf.) yo·šá hi work (*yo·šá· work + -i) ya²čá·hi necessity (*ya²čá· suffer + -i) yo·šá·ha work! (*yo·šá· work + -a imp. suf.)

3.10. Limitations between consonants and vowels in syllables.

With the consonant in syllable initial position: d does not precede i; d, I, and r have not been observed preceding e; l and r have not been observed preceding Λ .

With the consonant in syllable final position: ¢, s, y, l, and r have not been observed following i; t, č, w, r, and l have not been observed following e; t, š, and w have not been observed following a; l and r have not been observed following o;

 \tilde{n} , l, and r have not been observed following u; \tilde{t} , \tilde{n} , w, l, and r have not been observed following Δ . Consonantal clusters and the glottal stop do not follow long vowels.

With rare exceptions which seem to follow no rule, the alveolars are not found in nexus with i or y; their place is taken by the palato-alveolar forms.

wó ni girl, číkiň a skin disease (Sp. "pinto"), tiň excrement, *?iť be, šiš bull, čí ča cradle o

Examples of alveolars in nexus with i are as follows: makti a supernatural female wood spirit, titi civilized person, (Sp. "gente de razon"), sikuhti a type of bee, marksi beforehand, sisimat enchanted place. Spanish loan words often show alveolars in nexus with i, e. g., animat animal, sintirón cinturon, así asi.

4. MORPHOPHONEMICS

4.1. On the morphophonemic level Populuca is characterized by extensive sandhi phenomena. Most of this is of the type known as internal or word sandhi, i. e., morphophonemic changes which occur when grammatical elements are combined into words. In some cases the sandhi phenomena are also external, or phrasal in nature, i. e., the morphophonemic changes occur both when grammatical elements are combined into words and when words are combined into phrases. The sandhi processes most commonly used in Popoluca are metathesis, syllabic division changes, palatalization, consonant changes, consonant syncope, vocalic changes, and vocalic syncope. The strictly internal phenomena are first discussed, and then those that are also external.

INTERNAL SANDHI

4.2. Changes in syllabic division. Certain morphological and phonological processes cause changes in the syllabic division of many words. Thus, when morphemes of the pattern -V, -VC,

nánči/ħ/ varies from nánči[n] to nánči [ħ] pá·ši/ħ/ varies from pá·ši[n] to pá·ši[ħ] ti/ħ/ varies from ti[n] to ti[ħ] kf/ħ/či varies from kf[n]či to kf[ħ]či

 $^{^{6}}$ When \tilde{n} (or n[2]) follows i preceding a palato-alveolar, or when it is the final coronant farther is fill be of the pattern $\delta \tilde{n}$, $\delta \tilde{n}$ or $t \tilde{n}$, it usually is only slightly palatalized, but may vary from almost ne palatalization to complete palatalization. This phonetic range causes some question as to how n in such cases should be interpreted phonemically. Since \tilde{n} preceding an alveolar tends to be very weakly palatalized, and in some cases not at all (4.5), it appears that with respect to palatalization \tilde{n} is phonetically "weaker" than the other palato-alveolar forms, to which some of the palatalizing quality assimilates. Hence, it is assumed that [n]~ $[\tilde{n}]$ is $[\tilde{n}]$.

-?V, or -?VC are added to stems ending in a consonant, the final consonant becomes the first phoneme of a new syllable. In the case of those morphemes with glottal initial, the glottal either metathesizes (4.23) or disappears (4.25).

há: si thought, idea (*ha:s think + -i nom. suf.)
há.ka piece (*hak break + -a nom. suf.)
kíp.sa measuring stick (*kips measure + -a nom. suf.)
hé.mum just there (hem there + -um enc.)
?a.ku.ťi?.ñá:p I am becoming lazy (ku.ťiñ lazy + -?a:
verb. suf. + -p inc. suf.)
híp.saŋ fire brand (*hips burn + -aŋ nom. suf.)

- 4.3. Palatalization. One of the outstanding phonological characteristics of Popoluca is the marked palatalizing effect of i and y when bearing certain relationships within the word to the alveolars t, ¢, s, and n. As a general rule these alveolars assimilate to the palato-alveolar forms t, č, š, and ñ under the following conditions: (1) when preceded or followed by i; (2) when preceded by i?; (3) when preceded by y.
 - (1) ?aŋmáti word (*?aŋmát speak + -i nom. suf.)
 ?iťák his house (?i- pos. p. pref. + tak house)
 ?ičámi his load (?i- + ¢ámi load)
 háši thought (*hás think + -i nom. suf.)
 ?išé?t he fried it (?i- t. p. pref. + *se?t fry)
 miňáspa you pass (mi- i. p. pref. + *nas pass +
 -pa inc. suf.)

(2) ?anči?ťa?mpa you (pl.) give it to me (?an- t. p. pref. + *či? give + -ta?m pl. suf. + -pa) ?anči?ñé? I have given it to him (?an- t. p. pref. + *či? + -ne? perf. suf.)

(3) kúyť nm avocado (kuy tree + t nm fruit) hayč ná ši boy (hay- comb. form of háya male + ¢ ná ši child) ξáyš nk string bean (ξay vine + s nk bean) γι-škuyň ná tear (γί-škuy eye + n n vater)

4.4. Limitations to the palatalization rule. When n would be in syllable final position, but because of metathesis becomes initial in the following syllable preceding i, it does not palatalize.

?a?nf·špa I see (him, her, it) (?an- t. p. pref. + *?i·š see + -pa inc. suf.)
wΛ?à·p ta?nft we are able to live (*wΛ?á· be able + -p inc. suf. + tan- t. p. pref. + *?iť be, live.)

When n falls between two i's it does not palatalize. Furthermore, when ñ falls between two i's it assimilates to the alveolar form. These patterns have been observed only in the case of constructions involving the comitative (6.7), causative (6.6), and benefactive (6.5) verbal prefixes, and the simulative noun prefix (10.5). Also, the second i in these constructions does not palatalize alveo-

lars which may follow. Additional data on these morphemes are given in 4.21.

?ininúkpa he brings it (?i-t.p.pref. + na-com. pref. +
 *nuk arrive + -pa inc. suf.)
?inisé·tum he has just returned with him (or it) (?i- +
 na- + *se·t return + -um enc. just)
?inikkí?mpa you pull him up (?in-t.p.pref. + ?ak caus. pref. + *ki?m go up + -pa)
?iniηmát you spoke with him (?in- + ?aη- ben. pref.
 + mat stem of *?aηmát speak with)

4.5. A palato-alveolar preceding an alveolar usually causes palatalization of the alveolar. When ñ is a part of the cluster its palatalization often is weakened, sometimes to the point of entirely disappearing.

% * Ačtam we (? Ač I + -tam pl. suf.)
*piñčúks pinch lightly (*piñ touch lightly + * ¢uks pinch)
% int k your house (?in-pos. p. pref. + tak house)

4.6. Consonant change. The phoneme \tilde{n} becomes η before k. But n changes to η before k only when the syllable contains a vowel other than Λ or u. When the syllabic is Λ or u, the following n (or 'n cluster) remains unchanged before k. In this latter case there is a tendency to pronounce the indefinite shwa vowel between the two consonants. This is a part of the rule governing relationships between consonants with dissimilar points of articulation (2.10).

?iηkómpa you will fill it (?iñ- t. p. pref. + *kom fill + -pa inc. suf.)
?aηκά·pi my firewood (?an- pos. p. pref. + ká·pi firewood)

But

kánka? neck is pronounced [kánəka?] tá?nkuy branding iron is pronounced [tá?nəkuy] kú?nki squirrel is pronounced [kú?nəki?]

4.7. Before m or p, the nasals n and ñ of the pronominal prefixes of nouns and verbs become m.

?ammóya my flower (?an- 1st. per. pos. p. pref. + móya flower)
?immának your child (?iñ- pos. p. pref. + mának child)
?ampát I found it (?an- t. p. pref. + *pat find)
?impák you took it (?iñ- t. p. pref. + *pak take, get)

4.8. Before y and n the voiceless stops t and t become h.

wahñà háyi many words (wať-comb. form of wáťi many + na- en. suf. + háyi word)
se hyáhpa they return (*sé t return, -yah pl. suf.)
?ihyáh there are (*?iť be, + -yah)
se hné? he has returned (*se t return + -ne? perf. suf.)
aŋwahné? I have done it (*wat do)

4.9. Consonant syncope. The possessive verbalizing suffix -?Λ?y (6.12), the repetitive suffix -?ο?y (6.14), the indirective suffix -?α?y (6.17), the suffixes -?Λ?y and -?α?y also in combined affixation (6.18-6.23), and the verbal pluralizing suffix -tα?m (8.4) fall in a position of loud stress in a majority of their occurrences. When they fall in a position of weak stress the medial glottal disappears. The initial glottal of those with initial glottal disappears (4.25) or metathesizes (4.23).

```
?aη- + *kom fill + -?Λ?y >*?aηko?mʎ?y marry + -ne? perf. suf.>?aηkò?mʌyñé? I have married
*ku?t eat + -?o?y >*ku?dó?y eat people + -pá?ap ag. suf.> kù?doypá?ap he who eats people
*top take out + -?a?y> *tobá?y take it out of something + -ta. pas. suf. >tòbayťá. it was taken out of something
```

mi- + *ku[?]t (eat) + -ta[?]m >miku[?]ttá[?]m he ate you (pl.) + ta[.] >mikù[?]ttamtá[.] you were eaten

4.10. The possessive verbalizing suffix $-?^{\Lambda}$?y (6.12), the repetitive suffix $-?^{\Omega}$ y (6.14), and the indirective suffix $-?^{\Omega}$ y (6.17) when followed by the incompletive suffix -p (8.9) as an occasional free variant drop the final ?y.

```
hàwa^{\gamma}níp he has a fever (háwa^{\gamma}fever + -^{\gamma}n^{\gamma}y + -p) thksob iší^{\gamma} he is beating (a drum) (*taks hit + -^{\gamma}o^{\gamma}y + -p) ^{\gamma}iñn^{\gamma}máptim he then said to him (^{\gamma}i- t. p. pref. + *nam say + -^{\gamma}a^{\gamma}y + -p)
```

4.11. The perfective suffix -ne? (8.3) and the instrumentative compounding theme -ka? (6.29) fall in a stressed position in a great majority of their occurrences. When they fall in an unstressed position the final glottal disappears. The e of -ne? often assimilates to i (4.17).

```
nàkniyáh they have gone (# i. p. pref. + *nak go + -ne?
+ -yah pl. suf.)
?a?nà?mnitá?m we have looked at it (?an- t. p. pref. +
```

*?a?m look + -ne? + -ta?m pl. suf.)

?ikò·ñkané? tùm serpiénte he has seated himself on a serpent (?i- t. p. pref. + *ko· ñ sit + -ka? + -nc? + tùm serpiénte a serpent [Sp.])

tàm otmáči ?ammôhkatá?m it was a bet that we had begun (tàm otmáči a bet + ?an- t. p. pref. + *moh begin + -ka? + -ta?m)

4.12. Under certain circumstances, not all of which can be precisely defined, h is either very weakly aspirated, or disappears entirely. When syllable initial and following a stop, especially k, h often follows this pattern.

kå:pťakóm in the house of arrows (ká:pťak arrow house + -hom loc. suf.)

```
?oká·tuŋ godfather (?ok- nominal pref. + há·tuŋ father)
?anʎkpa he·póm I go among the tree gourds (?anʎkpa I go + he·p- comb. form of hép·e tree gourd [Sp. "jícara''] + -hom loc. suf.)
huktóm in the fire (hukt- comb. form of húktu fire + -hom)
wʌðáya husband, old man (wʌt- comb. form of wʌti big + háya male)
hosóm in the cave (hos cave + -hom)
hʌmñóm in the forest (hʌmñ- comb. form of hʌśmñi forest (Sp. monte) + -hom)
```

kuyám ashes (kuy trec + ham lime [Sp. "cal"])
*čiňák throw in a definite direction (*čih throw + *nak

tinos anus (tin excrement + hos hole, cave)

4.13. The verbal pluralizing suffix -ta?m (8.4), when in word final position, as a free variant often loses the final m.

```
?aki?mtá? or ?aki?mtá?m we climbed (?a- i. p. pref. +
  *ki?m climb, go up + -ta?m pl. suf.)
miše:ttá? or miše:ttá?m you (pl.) returned (mi- i. p.
pref. + *se:t return + -ta?m)
```

4.14. When geminate clusters of ? occur the cluster reduces to one phoneme.

```
ka?á·pa thumb (ka? hand + ?á·pa mother)
na?í·škuy spring (Sp. "ojo de agua") (na? water +
?í·škuy eye)
śa?á·pa metate (śa? stone + ?á·pa mother)
śu?éši tarantula (śu? night + ?ési crab)
```

4.15. Special voicing rules for p. The incompletive suffix -pa when following a verb theme ending in V? becomes -ba.

```
nó?ba it burns (*no? burn)
?ampó?ba I break it (*po? break)
?aká?ba I die (*ka? die)
```

4.16. Voiceless stops have been observed to voice consistently in a number of cases which appear to follow no general rule beyond the fact that, with one exception, they fall between vowels. The most common cases noted are as follows.

```
nága go! (*nak go + -a imp. suf.)
waďáya husband (wať- comb. form of wáťi big +
háya male)
wá·bak good (wa· good + pak enc.)
tè· dawí?ki let's eat! (te· let's! + tawí?ki ger. verb form
of *wi?k eat)
éybak again (éya also + pak enc.)
```

4.17. Vocalic changes. When the perfective suffix -ne? is followed by any suffix requiring a shift of accent away from the -ne?, the e varies freely with i. Furthermore, neither the n nor a conso-

nant following the i palatalize following the usual palatalizing rules (4.3).

?i?ì·sniyáh they have seen it (?i- t. p. pref. + *?i·š see + -ne? perf. suf. + -yah pl. suf.) nìkniyáh they have gone (# i. p. pref. + *nʌk go + -ne? + -yah) ?a?nà?mnitá?m we have looked at it (?an- t. p. pref. + *?a?m look + -ne? + -ta?m pl. suf.)

4.18. Reduction of vowel length. Since a long vowel cannot precede a ? (3.10), when through metathesis a ? is caused to follow a long vowel, the vowel reduces to the short form.

'ipi'ηά'y he gathered it for someone (*pi'η gather) aηkusu'nκ''ypa I keep something (*su'n want)

4.19. Vocalic syncope. Nouns and attributives which end in a vowel usually lose the vowel when followed by another morpheme. This is not invariably the case, and no hard and fast rule is apparent from our notes. A few nouns have two distinct combining forms, one which maintains the final vowel, and the other which loses it. In the final analysis each noun and attributive must be considered as a unique form with unique characteristics.

¢Λ·whóm among the tobacco (¢Λ·wi tobacco + -hom loc. suf.)

¢ð·wihóm among the mojarra (Sp.) (¢ó·wi mojarra + -hom)

tΛ²phóm among the fish (tΛ²pΛ fish + -hom)

²uksyúkmλ up in the cloud (²úksλ cloud + yúkmλ locator)

kopkúkmλ in the middle of the savanna (kó·pa

savanna + kúkma) kó·so knee has the following forms:

koʻstéʻñ kneel (kóʻso + *teʻñ stop) koʻspút sprout at the knee (kóʻso + *put come out) kòʻsoyúkma on the knee (kóʻso + yúkma) kòʻsoká'ak boot (kóʻso + ká'ak shoe)

4.20. Vocalic syncope and palatalization. When words or syllables with the alveolars t, s or n in initial position are combined after words or syllables ending in i, the alveolars palatalize and the i drops out, to produce the combining form.

ká přak house of arrows (ká pi arrow + tak house) ka přá? Arrow Water (proper noun) (ká pi + na? water)

water) wô ntam girls (wô ni girl + -tam pl. suf.) ? Akštuh hail stones (? Akši corn grains + tuh rain)

4.21. The noun prefix ${}^{9}a\eta$ - (10.5) and the thematic verbal prefixes ${}^{9}a\eta$ - (6.5), ${}^{9}ak$ - (6.6) and na- (6.7), when preceded by the pronominal prefixes (7.2, 7.5) undergo certain changes which do not follow the morphophonemic rules which

govern other apparently similar phenomena. The phenomena involved are failure of the glottal to metathesize with preceding nasals, failure of i to palatalize alveolars, consonantic syncope, reduction of geminant clusters, and vocalic assimilation. Since these phenomena are limited to the morphemes in question, they are treated as aspects of one problem rather than separately in the several sections involved.

The following chart shows the pronominal prefix, the noun or verb prefix, the resultant combined form, the form which might be expected if the general rules were followed, and the paragraph number of the general rule. The verbal prefix ?ak- is not used in the chart, since it behaves in exactly the same manner as ?a₁-. Also see 4.4 for data bearing on these phenomena.

Pronominal prefix	Noun or verb prefix	Resultant combined form	Expectable combined form	General rule
?a-(ta-)	+ ?aη-	> ?aη-	?a?aη−	4. 25
[?] an-(tan-	+ ?aη-	> ?anaŋ-	?a?naŋ-	4. 23
man-)				
44 44	+ na-	> ?ana-	?anna-	2. 11
?iñ-	+ ?an-	$>$?ini η -	?i?ñaη-	4, 23
4.6	+ na-	> ?ini-	?iñña−	2. 11, 4. 5
mi-	+ ?aη	$> \min_{\eta}$ -	mi?aη-	4. 25
4.6	+ na-	> mini-	miña-	4. 3
?i-	+ ?aη-	> ?iη-	?i?an-	4. 25
44	+ na-	> ?ini-	?iña−	4. 3

4.22. Stress patterns and shifts. Loud or weak stress is, as has been said (1.4), an inherent feature of certain morphemes. Word classes are characterized by stress position as well as by morphological considerations. Nouns, stative verbs, attributives, pronouns, and enumeratives of more than one syllable, with certain exceptions, have a loud stress on the penultimate syllable, while active verbs have a loud stress on the final syllable. Some conjunctions such as 'iga that, and the negative attributive da, except when in isolation, are given weak stress.

The greatest variation in noun stress occurs in the case of secondary, compound nouns. In the case of compounds composed of noun and noun loud stress may occur on the penult (of disyllabic nouns) or final syllable (of monosyllabic nouns) of the final member of the compound, and a medial stress on the inherently stressed syllable of the first member, as ?i·škuyñá? tears (?í·škuy eye + na? water), or a loud stress may occur on the penult of the compound form, e. g., ko·báktak hat (kó·bak

head + tak house). When a secondary noun stem is composed of attributive and noun, loud stress falls on the noun penult and medial stress on the attributive penult, e. g. šùťuná? (šúťu small + na? water).

Certain affixes of nouns, attributives and enumeratives are always weakly stressed, causing the loud stress to fall as it would in the unaffixed word. These are:

The thematic noun prefixes ma- and way-, e. g., ma¢á? star, way¢á? pebble, masáwa hurricane.

The possessive prenominal prefixes, e. g., ?anták my house, ?iká? his hand.

The thematic suffix -ti, e. g., lúpuhti wolf, šúnuhti a supernatural spirit.

The plural nonthematic suffixes -tam and -yah, e. g., nawahyah witches, manaktam sons.

The adverbial enumerative suffix -kay, e. g., maktaskay four times.

Certain noun and enumerative nonthematic suffixes have an inherent loud stress. These include:

The locative suffixes -ka?m, -hom, -?aηká?m and -?aηhóm, the locative nominalizing suffix -kom, and the enumerative suffixes -ten and -na, e. g., kuyhóm in the tree, takká?m at the house, moηkóm sleeping place, wastén two, wasná two.

A few nonthematic verb suffixes have inherent weak stress, causing the loud stress to fall as it would on the unsuffixed word. These are the incompletive suffix -pa, the imperative suffix -A, the subjunctive suffix -?iñ, and the gerundial suffix -i, e. g., ?a?é¢pa I dance, nága go!, yú?miñ that it may boil, ?éči dancing.

All of the enclitics have an inherent weak stress and thus when attached to a word do not cause the loud stress of the word to shift.

All active verb stems (on the final syllable) and noun stems (on the penult) have an inherent loud stress, so that when through affixation the loud stress is shifted away from the stem so that one or more syllables intervene, the stem receives a medial stress, e. g., nò?yahtá:p they will be burned (*no? stem of verb "burn"). Noun compounds of inflected verb plus noun (10.23) follow the rules of phrase stress (4.29), not word stress.

INTERNAL AND EXTERNAL SANDHI

4.23. Metathesis. When a nasal, y, l, or r is followed by a glottal, the resultant cluster undergoes metathesis.

kù n ičámi with his burden (kun with [Sp. "con"] + nos. p. pref. + ¢ámi burden)

tù?m antak my house (tum ind. art. + ?an- pos. p. pref. + tak house)

?ana? η á?m I waited for him (?an- t. p. pref. + ?a η -ben. pref. + *?a?m look)

pu'yá'pa big toe (lit. "foot-mother") (puy foot + 'a'pa mother)

mà?l iqwát you did it badly (mal bad [Sp.] + ?iñ- t. p. pref. + *wat do)

láma $^{\gamma}$ ra $_{\eta}$ náka at the edge of the ocean (lámar ocean [Sp.] + $^{\gamma}$ a $_{\eta}$ náka cdge)

4.24. Consonantic changes. Before w, the nasals n, \tilde{n} , and m become η .

Paŋwih I untied it (Pan- t. p. pref. + *wih untie)
Piŋwi-ši your beard (Piñ- pos. p. pref. + wi-ši beard)
daŋ waPá- he could no longer (da neg. at. + -m enc. +
*waPá- be able)

4.25. Consonantic syncope. When a syllable ending in a voiceless consonant is followed by? the glottal is lost. If the syllable ends in a vowel the glottal remains.

4.26. When a word or syllable ending in a voiceless stop is followed by a word or syllable beginning with 'V, voicing of the stop occurs. The glottal drops out (4.25).

hù °d í t where is it (hu °t where + °i t it is)
mλ ° λ dá · pa mother-in-law (m λ ° λ t- in-law + ° á · pa
mother) s λ ° λ bam right now (s λ ° λ p now + - ° an enc.)
tλg ih λ p door (tλk house + ° i- pos. p. pref. + hλ p
mouth)

mogáy corn husk (mok maize + ?ay lcaf)
?antobá?ypa I forcibly take out something (?an-t. p.

pref. + *tóp take out + -?a?y indir. suf. + -pa inc. suf.)
mànagá?y conccive a child, possess a child (mának

 $child + -? \wedge ?y$ verb. suf.)

4.27. In certain syntactical situations a single

syllable will span two words. When words beginning with 'V- follow those ending in consonants, the glottal either metathesizes, as in the case of nasals and y, r, and l (4.23), or disappears (4.25). In both cases the final consonant of the first word becomes the initial phoneme of a syllable which is split between two words.

kù?.n i.č.ć·.mi with his burden (kun with [Sp. "con"] + ?i- pos. p. pref. + ¢.ć·.mi burden)

tù?.m an.ták *my house* (tum indef. art. + ?an- pos. p. pref. + tak *house*)

?\alpha.\center a.\ci\tilde{\text{in}} I bathed (?\alpha\center I + ?\alpha-i. p. pref. + *\ci\tilde{\text{in}} bathe) ho'?\text{n} i.h\xip bird's beak (hon bird + ?i- pos. p. pref. + h\xip mouth)

4.28. A tendency has been noted in the case of syllables consisting of pa or ba, when followed by ?i, for the a to assimilate to the quality of i. Our data do not permit more accurate definition of the conditions under which this phenomenon occurs.

di 'ihódoη he docsn't know it (da neg. at. + 'ihódoη he knows it)

si di γιηκυράκρα if you don't believe it (si if [Sp.] + da + γιηκυράκρα you believe it)

wánpi ?ilibrohóm he reads his book (wanpa he reads)

4.29. Phrase stress cuts across word stress to the extent that the loud stress in an utterance tends to come as nearly as possible at the end of the utterance, within the limitations fixed by the presence of any inherently weak-stressed syllables in utterance final position. Thus, other loud-stressed syllables in words preceding that with the final loud stress usually are given medial stress. Groupings of words into utterances with

one final loud stress and other medial stresses tend to be groupings of noun or verb with preceding modifying words, e. g., ¢ùg itu¢ rat's tail, tùηgam háma another day, hèmu'm i'i's there he saw it. Gerundial clause constructions also follow this pattern, with the final (gerundial) verb receiving the loud stress and the preceding (main) verb receiving a medial stress, e. g., mòh ihás he began to think, taksob išá? he continues hitting. Modifying elements following the word which they modify retain their loud stress, e. g., túh pámbak hard rain. In an utterance in which a noun subject or object follows a verb the noun is characterized by loud stress, while the loud stress of the verb, if on the final syllable which is not the stem, shifts back to the stem leaving a medial stress on the final syllable, e. g., ?ikunuktá·p he came to where they were + tahwin minnows > ?ikunúktà·p táhwiñ he came to where the minnows were.

MORPHOLOGY

5. GENERAL REMARKS

5.1. Word classes. Popoluca words fall into four major classes: verbs, pronouns, substantives, and enumeratives. This classification is based on purely formal criteria, and words of each class have their own paradigmatic sets. Pronouns partake of a small part of verb inflection, but because pronominal themes are free while those of the verb class are always bound, and because pronoun inflection is much less extensive than that of the verb, pronouns have been considered as constituting a separate form class. The substantive class includes nouns and attributives. Attributives are largely analytic, but some may partake of a part of noun inflection, often in stereotyped form. Enumeratives likewise partake of a part of noun inflection, but also have their own inflectional system. A few attributives may be given a part of the enumerative inflection.

5.2. Morphological processes. There are three processes involved in the formation of Popoluca words: affixation, compounding, and reduplication. Affixation includes prefixation and suffixation, of which the latter is more widely used. It is convenient for purposes of analysis to distinguish two levels of Popoluca morphology: theme formation, and word formation or inflection. All of the

morphological processes are used in the formation of the theme, while only affixation is used in the formation of the word. The processes of theme and word formation are more complex for verbs than for words of the other form classes.

5.3. Theme formation. Themes may consist of a simple stem or root morpheme, a reduplicated stem morpheme, a simple or reduplicated stem plus thematic affixes, or a compound of two or (rarely) more themes. Every stem or theme belongs inherently to one form class, and must be given special suffixes to change it to a theme of another form class. Thus, verb themes may be formed from substantive themes by the addition of certain thematic verb suffixes, and noun themes may be formed from verb themes by the addition of certain thematic noun suffixes. In addition, one theme may become a new theme of the same form class by the attachment of thematic prefixes and/or suffixes of that form class. Themes may be bound or free, i. e., they may be words in absolute (or theme) form, or may become words only through the attachment of nonthematic affixes. Themes of the substantive and pronoun classes are free themes, while most enumerative and all verb themes require nonthematic affixes (which phonetically may be zero).

5.4. Word formation. Word formation pro-

ceeds by the attachment of paradigmatic sets of nonthematic affixes to themes. The paradigmatic sets used differ on the whole for words of different form classes, although there is some overlapping. Each paradigmatic set constitutes a separate morphological category.

- 5.5. Morphological categories may be defined as follows.
- (1) Pronominal reference. This is a category of nouns, verbs, and enumeratives, and is expressed by means of prefixes. For nouns and enumeratives it is a category of possession, and for verbs one of resolution. For verbs there are two sets of prefixes which indicate intransitivity (subject) and transitivity (both subject and object). The noun and enumerative set corresponds to the transitive set for verbs. Number is expressed only in the first person.
- (2) Case. This is a category of nouns, and to a limited extent of attributives. It is expressed by means of suffixes of locative, indirective, and durational reference.
- (3) Number. Number is expressed in verbs, pronouns, nouns, enumeratives, and (occasionally) attributives by means of suffixation and prefixation for the first person.
- (4) Aspect, mode, voice, agent, and subordination. These are categories of the verb and are expressed through suffixation.
- (5) Enumeration. These are categories of the enumeratives (and of a few attributives) and are expressed through prefixation and suffixation.
- 5.6. Enclitics are suffixes which may be attached to a formally complete word of any form class; they are qualifying, intensifying, or limiting.

6. THE VERB THEME

6.1. One of the most complex and productive morphological processes in Popoluca is the system of formation of new verb themes from verb and substantive themes through affixation and compounding. This, with the system of verb inflection (or attachment of nonthematic affixes of the verb to the verb theme), accounts for most of the functional expression of the language. A verb theme is a single morpheme or a group of morphemes built up through affixation, compounding, or both, to which nonthematic prefixes and suffixes (which may be phonetically zero) must be attached to form a complete verb.

The thematic prefixes and suffixes are attached to a root verb morpheme, or stem, which may also be a verb theme. There are also thematic prefixes and suffixes, which, attached to a word of the substantive class, form verb themes. Other thematic affixes may then be attached to these. Compound verb themes are formed through the juxtaposition of substantive themes and verb themes, or two verb themes. Thematic affixes may then be attached to a compound theme to form a new theme. Most verb stems are also verb themes, though a few are found only with their thematic affixes, or as a member of a compound theme. Verb stems may be reduplicated, but stem reduplication has been noted only in conjunction with certain thematic affixes.

THE VERB STEM

6.2. Verb stems usually are monosyllabic of the patterns CVC and CVCC and, rarely, CV and CVCCC. A few are disyllabic of the pattern CV.CVC. Examples:

*px get fat

*?i.š see

*ka? die

*čin bathe

*kips knead dough

*he?k frighten

*ta?ps twist rope

*hi.kíñ take apart

*éu. kúm arise

Verb stems are reduplicated only when used with the repetitive and durative-thematic suffixes.

THEMATIC PREFIXES OF THE VERB

- 6.3. Five thematic prefixes of the verb have been isolated. These may be attached to a verb stem or to a compound verb theme in order to form special categories of meaning. These semantic categories are apparently not always clearcut, but insofar as they have been established they are purposive, simulative, benefactive, comitative, and causative.
- 6.4. The prefix ku- is purposive and defines an action undertaken with a definite purpose in view.

ku?á?m search for (?a?m look)

*kuná·s go beyond (*na·s pass)

*kupíň choose (*piň touch lightly)

ku¢é·n tie to something (¢e·n tie)

*kupút free (*put go out)

*kukéh dawn (*keh appear)

*kumatón hear where something is (*matón hear)

6.5. The prefix ${}^2a\eta$ - usually is benefactive or comitative in meaning, that is, the action of the verb with this prefix is performed for, with, or because of someone. This significance is most apparent when the verb theme with this prefix is transitive. In a few cases where the theme is intransitive the prefix seems to be simulative in meaning (see noun prefix ${}^2a\eta$ - (10.5)). In other cases the meaning is specialized and cannot be clearly defined. The vowel of this prefix is the same as that of the pronominal prefix which it follows. For vowel change and loss of 2 see 4.21.

?ana?ηά?mpa·I await (someone) (*?a?m look)
?iniηmát you spoke with him (mat bound stem of
 *?aηmát speak)
mi?ηά· he fought with you (?a. bound stem of *?aη?á.
fight)
?aηháypa it thunders (*hay speak)

?anwéha shout! (*weh weep)

Pininnúk you had it coming to you, it was owed you (*nuk arrive)

?ananwéhpa I weep because of something (*weh weep)

6.6. The causative prefix ?ak- expresses action that is caused by the subject of the verb, that is, to have something done or to cause another person to do it. As an object must be expressed, the transitive pronominal prefixes are used with verbs formed in this manner. For vowel change and loss of ? see 4.21.

6.7. The comitative prefix na- expresses action performed with someone or something. Since an object must be expressed, the transitive pronominal prefixes are always used with themes with this prefix. For vowel change see 4.21.

Pananák I carried it (*nak go)
Pana?íťpa I have it (lit. "I am with it") (*?iť be, live)
Panamé¢ I searched with him (*me¢ search)
Pinimíñpa you are bringing it (*miñ come)
Piniwátpa you helped him do it (*wat do)
Pinimón he slept with her (him, it) (*mon sleep)

6.8. The personal comitative prefix waga- expresses action that is undertaken with another person. It is often placed before the comitative prefix na- (6.7) to give added emphasis. In contrast to themes with the prefix na- the pro-

nominal prefixes used with waga- themes may be intransitive as well as transitive.

tawagas á'dba we go about together (*sa' go about)
'aηwaganamóηpa I am going to sleep with him (her)
('an-1st. per. sub. 3d. per. obj. t. p. pref., *moŋ
sleep)

tawagamónpa we will sleep together (ta-1st per. incl. pl. i. p. pref.)

6.9. Order of prefixation. In some cases two thematic prefixes may be attached to the same verb theme. The prefixes na-, [°]aη-, and [°]ak- are mutually exclusive. Permissible combinations are waga- plus na-, and ku- preceded by na- or [°]ak-.

?anakkutí η pa I fell a tree (tag bound stem of *?aktag fell)

?anakkupagá?ypa I cause him to buy everything for someone (*pagá?y <*pak get + -?a?y indir. suf.) ?anakué@npa I tie it someplace with something else (*éen tie)

THEMATIC SUFFIXES OF THE VERB

6.10. There are two types of thematic suffixes, the verbalizing suffixes which may be attached to a substantive theme to convert it into an intransitive verb theme, and the qualifying suffixes which are attached to a verb stem or verb theme to define the limits or quality of the action. Certain of the latter when used in conjunction with certain of the thematic prefixes form a theme whose meaning is not readily deducible from the meanings of the individual morphemes. Each verb theme has an inherent transitivity or intransitivity. Certain thematic suffixes impart intransitivity to a verb stem which in its absolute state would be transitive. A verb theme with the indirective suffix, since it must have an object, is always transitive. This is also the only thematic suffix which may be used in conjunction with other thematic suffixes, and always follows them. It may be used after any of them, except the verbalizing suffixes, including all those in combined affixation.

6.11. The inchoative verbalizing suffix -?a may be added to a substantive to form a verb. The meaning usually is that of "becoming" although in other cases the noun from which the verb is derived is the substance of the action. Verb themes formed with this suffix usually are intransitive, unless preceded by prefixes which require the transitive pronominal prefixes, such as na- (6.7) and ?ak- (6.6).

γayaγá· I am hungry (yaγ hunger)
 γakuťi°ñá·p I am getting lazy (kuťiñ lazy)

?ata?bá·p I fish (ta°p- comb. form of tá°pa fish)
¢u²á·p it is becoming night (¢u² night)
mi²ùki²á· you got drunk (²úki (a) drink
*?uk to
drink)

?anakmʌhá* I grew (lit. "was caused to become big") (mʌh big)

Pronouns also may be verbalized by means of this suffix, but when this is done they cannot be given any verbal nonthematic suffix except the incompletive agentive suffix -pa?ap (it is probable that -wa?ap, completive agentive, may also be used, but it has not been noted).

'i' a pá'ap who is it' ('i who) mi'a pá'ap who are you' (mič > mi- you)

6.12. The possessive verbalizing suffix $-?^{2}$ is freely attached to nouns to indicate possession of the noun. Themes formed with this suffix are always intransitive.

?atagá?y I had a house (tak house) miče?sá?y you had a bed (¢e?s bed) hàwa?ηά?ypa he has a fever (háwaη fever) ko·bàktagá?y he had a hat (ko·báktak hat)

- 6.13. The qualifying suffixes. There are four qualifying suffixes, three of which define the continued or repeated quality of the action, one of these with reference to the mobility of the actor. The repetitive and the durative suffixes may be attached to a verb stem in either its simple or reduplicated state. The fourth suffix is indirective.
- 6.14. The repetitive suffix -?o?y when attached to primary or secondary verb stems indicates action repeated many times in quick succession or (occasionally) sustained action. It is always used with the intransitive pronominal prefixes. Often it is used with reduplicated verb stems. It differs primarily from the durative suffix -ne? (6.15) in that it is used especially with verb themes which imply sudden or repetitive action, such as hitting, grabbing, throwing, brushing, etc., rather than with verb themes which convey a smoothly continuative meaning such as dancing, sleeping, or writing. Sometimes the two concepts overlap, e.g., ?ahè?nhe?nó?ypa and ?ahè?nhe?nné?ba, both of which mean I keep digging (*he?n dig). Examples with unreduplicated stems:

Pama¢ó?ypa I hold on (*ma¢ grasp)
¢Agó?ypa he rings (a bell), he wags (his tail) (*¢Ak
make a wagging or swinging motion)
hA?yó?y he made a speech (*hAy speak)
tAksó?y he beat (a drum) (*tAks touch)
čihó?ypa túh it is raining (*čih hit, tuh rain)

Examples with reduplicated stems:

% amà¢ma¢ó% ypa I take hold of lots of things in succession (cf. % ama¢ó% ypa above) (*ma¢ grasp)

[?]aělhěihó[?]ypa *I keep hitting things* (cf. čihó[?]ypa above) (*cih hit)

?awàtwadó?ypa I do lots of things in succession (*wat do)

?ašìkšigó?ypa I keep on laughing (*šik laugh)

In two cases this suffix has been noted attached to noun stems: *¢e?mó?y urinate (¢em urine), *ti?nó?y defecate (tiñ feces).

6.15. The durative suffix -ne? contrasts with the suffix -?o?y (6.14) in that the action expressed by the verb themes to which it is attached is durative rather than repetitive in nature. It is almost always used with reduplication of the verb stem. Verbs with this suffix always take the intransitive pronominal prefixes.

?aηhamné?ba I remember (*?aηhám believe) ?amumné? I was sick (*mum lie on one's side) mòηmoηné? he kept on sleeping (*moη sleep) ?è¢e¢né?ba he keeps on dancing (*?e¢ dance) nλknakné? he kept going (*nak go) hìpshipsné? it kept burning (*hips burn)

6.16. The mobile-repetitive suffix -?Λ?yΛ?y expresses a repeated or continued action performed while the actor is in motion. Either transitive or intransitive pronominal prefixes are used, depending upon the underlying verb.

?ampèd Λ ?y Λ ?ypa I go along sweeping things (*pet sweep)

'ampè'dλ'yκ'ypa I go along laying things together (*pe't lay together)

?an\ga?y\danaga?y\dan

6.17. The indirective suffix -?a?y is used when an indirect object of the verb is to be expressed. The direct object usually expressed with the transitive pronominal prefix (7.5) becomes in this case the indirect object. Thus, verbs with this suffix always take the transitive pronominal prefixes. When this suffix gives a specialized meaning, it sometimes is reduplicated to give again an indirective meaning, e. g., ?ikôt he inserted it (*kot) >?ikodá?y he copulated >?ikòdayá?y he inserted something in it for someone.

?annegá?y I hid it from him (*nek hide)
?aηwadá?ypa I do it to him (*wat do)
man¢agá?y I left it for you (*¢ak leave)
?ipi?ηά?y he gathered it for someone (*pi·η gather)
?i'ugá?y he drank it with him (*?uk drink)
?ana?má?y he said it to me (*nam say)

COMBINED THEMATIC AFFIXATION

- 6.18. In most cases of simultaneous attachment of a prefix and a suffix to a verb stem the meaning of the resulting word is logical and foreseeable. Sometimes, however, the combination gives rise to a totally new meaning. This is the case when the prefixes 9 ak- (6.6) or ku- (6.4) are affixed to the same stem as the suffixes ${}^{-9}\Lambda^{9}$ y/ ${}^{-9}\Lambda g\Lambda^{9}$ y (6.19-20) or ${}^{-9}\Lambda^{9}$ y (6.17).
- 6.19. Causative-dispersive affixes of the pattern ${}^{2}ak$ -... ${}^{-2}\Lambda^{2}y/{}^{-2}\Lambda g \Lambda^{2}y$. The subject of a verb with these affixes generally causes the object to disperse in a direction away from the position of the subject. (The form of the suffix varies freely between ${}^{-2}\Lambda^{2}y$ and ${}^{-2}\Lambda g \Lambda^{2}y$. It can be used only in cases of combined affixation as illustrated here, and in paragraphs 6.20 and 6.21. The verbalizing suffix ${}^{-2}\Lambda^{2}y$ (6.12) is distinct, in that it is never attached to verb themes.)
 - ?anakkèbλgζ?ypa I drive something away from me (*kep drive [as of animals])
 - ?anakya?g.í?ypa I push something away from me (*ya?k push)
 - tanaknagá?ypa let's go in different directions! (*nak go) ?anakpe?dá?ypa I lay things out in a row (*pe?t lay together)
 - ?anaga?m ´a.?ypa I watch someone out of sight (*?a?m
 look)
- 6.20. Resultative affixes of the pattern ku-....-?\lambda?y/-?\lambdag\lambda?y indicate that the action of the verb leads to a definite result. There is probably also a certain purposive significance.
 - ?aηku?ršagá?ypa I see where something is (that I
 didn't know of before, or that wasn't there before)
 (*?irš see)
 - ?ankupadá?ypa I find something (that wasn't there before, or that I was looking for) (*pat meet, encounter)
 - ?aηkusu?n´n´?ypa I keep something (because I like it)
 (*su·n want)
 - ?aηkuna·s ´α²ypa I pass someone going in the opposite
 direction (*na·s pass)
- 6.21. Resultative affixes of the pattern ?aŋ-....
 -?A?y are very rare and it has not been possible to determine with certainty the precise meaning. Apparently, as in the case of 6.20, the action of the verb leads to a definite result.
 - ?aηko?m ´Α?ypa he marries (*kom fill)
 - ?anaηme¢Λ?ypa I go and search for more of something
 (to have enough) (*me¢ look for, search)

- 6.22. Benefactive affixes of the pattern ?ak-....
 -?a?y have the meaning of doing something for someone else, using his implements or materials.
 - ?anakta?má?ypa ?iťúmin I am keeping his money for him (*tam keep, ?iťúmin his money)
 - manakyu⁹má⁹ypa ⁹impásuη I boil your squash for you (*yu·m boil, ⁹impásuη, your squash)
 - ?anakwa?ná?ypa pè?m iviktróla *I am going to play that person*'s victrola (*wa·n sing, pe?m dem. pron. "that person," ?iviktróla his victrola)
- 6.23. Terminative affixes of the pattern ku-...-?a?y express the idea of performing an action until it is finished.
 - kukehá⁹y *it appeared* (something that had been lost) (*keh *appear*)
 - ?akku?i·šá?yA find it! (*?i·š see)
 - ?aηkupe?dá?ypa I lay together all the things that I am going to lay together (*pe?t lay together)

THE COMPOUND THEME

- 6.24. A compound theme may consist of two verb themes in juxtaposition, or one or two substantive themes compounded with a verb theme. Compound themes may be further developed by the use of thematic affixes. When two verb themes are compounded neither can actually be said to be modifying the other in most cases, for the two separate actions expressed are both integral parts of the action of the resultant compound theme. In a few cases, however, the action expressed by the second theme directly follows the action expressed by the first. The special compounding themes modify the theme to which they are attached.
 - 6.25. Compounds of two verb themes.
 - ?a?na^msét I looked back (lit. "turned around and looked") (*?a^m look + *set turn around)
 - ?anakmoη¢ákpa I leave him sleeping (?ak- caus. pref. + *moη sleep + *¢ak leave)
 - ?ampa¢kí?mpa I throw it up in the air (*pa¢ throw +
 *ki?m go up)
 - $\operatorname{Pamò\eta}_{\operatorname{hkuk\acute{e}hpa}}$ I wake up at dawn (*mo η sleep + *kukéh dawn < *keh appear)
 - ?inčihhákpa you throw it across (*čih throw + *hak cross)
 - [?]aηkù[?]tkukéhpa sák *I will breakfast on beans* (*ku[?]t eat + *kukéh dawn)
 - čipůtse dayťáp he was reversed and changed into (something) (*čipůt reverse + *se*t change into)
 - ?anne[?]mkipspa I taste it (test it by tasting) (*ne?m lick + *kips test)
 - ?annè?mkipsá?ypa I taste it for him (-?a?y indir. suf.)
 ?annà?mayčákpa I tell him and leave (*nʌ?má?y tell
 to someone + *¢ak leave)

6.26. Special compounding verb themes. There are six compounding verb themes which when joined to another verb theme form special semantic categories. These are perhaps derived from verb stems which are phonetically identical but which, as independent themes, differ in meaning.

6.27. The temporary compounding theme poyis the only compounding theme which precedes the verb theme which is modified (cf. *poy run). As a compounding theme it means "for a little while."

poymón he slept for a little while (*mon sleep)
2apoyhékpa I rest for a little while (*hek rest)
2ampòykusák I left it here for a little while (ku-purp.
pref. + *sak leave)

6.28. The originative compounding theme -na's to do first (cf. *na's pass).

?anakná:s I went first (*nak go) mimiñňá:s you came first (*miň come)

6.29. The instrumentative compounding theme-ka? usually indicates that the action expressed in the main verb theme is performed through the use of some instrument or agent (either implicitly understood or expressed), although it may have other specialized meanings (cf. *ka? die).

?anyòhoyká?ba I have with which to pay (*yohó?y keep paying< *yoh pay)

?amoηká?ha I sleep covered up (*moη sleep)

na?kká? he drank water out of something (*na?k drink water)

yemká? he fanned himself with something (*yem fan) šikká?ba he laughs at something (*šik laugh)

?ikò·ñkané? tùm serpiénte he has scated himself on a serpent (*ko·ñ sit)

6.30. The compounding theme -pak is used to express stasis after action (cf. *pak wrestle, throw over).

?ammatoηpák I listened without entering into the conversation (*matóη listen)

?a?na?mpák I watched (someone do something) (*?a?m look)

?imaépák he held on to it (*maé grasp) he?npákpa he covers something hollow (*he?n dig)

6.31. The inchoative compounding theme $-2a\eta \xi$ ukúm is made up of the thematic prefix $2a\eta$ - (6.5) plus the stem ξ ukúm (cf. * ξ ukúm arise, go out).

pò^γyaη¢ukúm he began to run (*poy run)
^γaηwèhaη¢ukúm he began to shout (*^γaηwéh shout<
^γaη sim. pref. + *weh weep)
kègaη¢ukúm it began to fly (*kek fly)

6.32. The continuative compounding theme -?aηhák is made up of the thematic prefix ?aη-(6.5) plus the stem hak (cf. *hak go across.)

?amò?ηaηhák I remained sleeping (*moη sleep) ko·stè?ñaηhák he continued to kneel (*ko·sté·ñ kneel) wì?gaηhák he continued to eat (*wi?k eat) nàgaηhákpa he goes and slays away (*nak go) mì?ñaηhák he came to stay (*miñ come)

6.33. Compounds of noun themes and verb themes.

?ahapkó·ñpa I stop talking, kecp quiet (hap mouth +
*ko·ñ sit down)

'ann'hé'npa I swim, paddle (as a boat) (nn' water +
*he'n dig)

Panak Λ?má¢pa I shake hands with him (kΛ? hand +
*ma¢ grasρ)

[?]aηkò·bakpíhpa I annoy him (kó·bak head + *pfh heat)

γiñλγkλγnákspa he blesses him (nλγ water + kλγ hand + *naks hit)

ko·sté·ũ he knelt (ko·s- comb. form of kó·so knee + *te·ũ stop)

6.34. Compounds of an attributive theme and a verb theme.

?anuntaháypa I really speak (núnta really + *hay speak)

?anwn. ¢ák I fixed it (wn. good + *¢ak leave)

wa'pút he was successful (lit. "came out well" as in some undertaking) (wa' + *put come out)

?anšùtuwátpa I make it smaller (šútu small + *wat
make, do)

Paŋwh-Paŋhám I desire, like (wh. + *Paŋhám believe)
Panéamna?iť I have a great deal (éam much, very;+
*na?iť have)

7. NONTHEMATIC PREFIXES OF THE VERB

7.1. There are two sets of nonthematic verb prefixes, which are mutually exclusive and which are used to indicate pronominal reference and resolution. Each verb theme, to be conjugated in the active voice, must be given the prefixes of one set or the other (or such as are phonetically zero) except for the main verb in syntactic clause sequences of main verb plus resultative gerundial verb (19.8-9) and main verb plus conditioned gerundial verb (19.10). Only a few verb themes may take either. The first set indicates the intransitivity and the second the transitivity of the verb. Thus the first set indicates subject and the second both subject and object. Verbs conjugated in the passive voice (with the passive nonthematic suffix) must use the intransitive set of prefixes, although only verbs which are transitive when in

the active voice may be conjugated for the passive. Conversely there are some changes from the intransitive to the transitive set in gerundial and contemporaneous clause constructions (19). Number, ordinarily expressed by suffixation, is only expressed by the pronominal prefixes of the first person of both sets to indicate the inclusive plural (8.4).

THE INTRANSITIVE SET

7.2. The intransitive set includes pronominal prefixes for the first, second, and third persons singular, and the first person plural.

The state of the s	Person	Singular	Plural
1	1st	?a- mi- # (zero)	ta-

?anákpa I go (*nak go), tanákpa we (incl.) go, minákpa you go, nakpa he goes

7.3. Verb themes which take the intransitive set of prefixes can neither be defined phonetically nor morphologically, except for the verb themes with the thematic suffixes -?a* (6.11), -?a?y (6.12), -?o?y (6.14), and -ne? (6.15) which must always use the intransitive pronominal prefixes except in syntactic constructions as indicated above (7.1). Similarly, verbs conjugated in the passive, with the passive nonthematic suffix, always use the intransitive set, although in the active voice they are transitive. A very few verb themes have been found which can take either the transitive or intransitive set, with such meanings as "marry" and "marry someone," "look," and "look (at) someone," "speak" and "speak (to) someone."

7.4. Stative verbs. Nouns, pronouns, and attributives which may modify nouns may be inflected with the intransitive set of pronominal prefixes when used predicatively, e. g., 'apá'šiñ I am a man, 'a'á' it is I, mimí it is you, he' it is he (she, it). Since the prefix in the third person is phonetically zero, the independent third person pronoun he' usually is placed before the verbalized noun or attributive, e. g., he' pá'šiñ he is a man, he' wá' he is good.

THE TRANSITIVE SET

7.5. Both subject and object are expressed by the transitive prefixes. Verb themes which require an expressed object must have one of the prefixes of this set. Phonetically and morphologically they are indistinguishable from those used intransitively, except for themes formed with the thematic prefixes na- (6.7) and 'ak- (6.6), and those formed with the indirective suffix -?a?y (6.17), which, since an object must be expressed, are always transitive. The transitive prefixes also are used with the verb of the subordinate (linear) clause (and sometimes with the verb of the main clause) in linear-punctual contemporaneous clause constructions (19.4), with the main verb of linear-linear contemporaneous clause constructions (19.5), and with the subordinate verb of conditioned gerundial clause constructions (19.10).

	1st. per. obj.	2d. per. obj.	3d. per. obj.
1st. per. sub.		man-	?an- (sing.) tau- (incl.
2d. per. sub3d. per. sub	?an- (sing.) ?a- (sing.) ta- (inel. pl.)	mi-	7in- 7i-

Ambiguity which might result from the overlapping of the prefix ?an- for both 1st. per. sub. 3d. per. obj. sing. and 2d. per. sub. 1st. per. obj. sing. can be avoided by the use of the independent personal pronouns before the prefixes. If the independent pronoun is omitted the meaning usually is understood as first person subject third person object.

?ančí? or ?kč ančí? I gave it to him (*či? give) mič ančí? you gave it to me

Only the first person may have inclusive plural prefixation. (See 8.4 for discussion and illustrations of plurals.) The transitive prefixes are given here with the verb theme *?i*s see.

8. NONTHEMATIC SUFFIXES OF THE VERB

8.1. Aspect, number, voice, mode, agent, and subordinacy are expressed through nonthematic

suffixation of the verb (table 1). Each formally complete verb must have a suffix (which may be phonetically zero) of orders I, VII, VIII, or IX. These suffixes are mutually exclusive, while those of the other orders are optional. The order of suffixation, as given in table 1, is subject to the following limitations: (a) the suffixes of orders II and IX, orders IV and VI, and orders VI and IX cannot be used simultaneously; (b) the collective suffix -num of order III has not been observed with

suffixes of orders IV and VI; (c) the suffixes of orders I and VII have been observed only with those of order III; (d) the linear-completive suffix of order VIII has been observed only with suffixes of orders II and III; (e) the linear-incompletive suffix of order IX has been observed only with suffixes of order III.

A formally complete verb most frequently has only one nonthematic suffix, and rarely more than three.

Table 1.—Order of suffixation of verbal nonthematic suffixes

I	II	III	IV	V	VI	VII	VIII	IX
Gerundial	Perfective	Number	Aspect	Passive	Purposive	Modal	Completive aspect	Incompletive aspect
-i #(zero)	-ne?	-ta ⁹ m -yah -num	Desidera- tive -to? Iterative -gak	-ta·	-tлр	Subjunctive -?iñ Imperative	#(zero) Agentive -w^?^Ap Linear -wAm	-pa, -p Agentive -pa ⁹ ap Linear -pam

Examples of suffixation order:

tohayniyahta wom they (tortillas) had just been made for him (*toha'y make (tortillas) for someone)

tanwattamgakpa we (gen. incl.) are doing it again (*wat do)

miku?ttamtá·p you are going to be eaten (*ku?t cat)

iña?mayniwá?ap he is the one who has said it (*na?má?v say)

8.2. The gerundial suffixes—order I. The gerundial suffixes are -i and # (zero). Verbs with the -i suffix are identical in form to those nouns derived from verb themes by the addition of the suffix -i (10.9). They may not, however, be given the nonthematic suffixes of nouns, and are very different from them in function. Whereas the nominalized verbs have the same syntactic usage as a standard noun the gerundials are used only as subordinate predicators following a main predicative verb in gerundial clause constructions. The syntactic usage of gerundial verbs is discussed in 19.6–11. Verbs with gerundial suffixes also may have the plural suffixes -yah and ta?m.

mòh yoʻšá·hi he began to work (*yoʻšá· work) n\kpa mi 'fti you are going (there) to live (*'it live) w^a'b iku't he can eat it (*ku't eat)

8.3. The perfective suffix—order II. The perfective suffix -ne? may be translated by either "have" or "had." Since perfective action is

always completed action, this suffix cannot be used with the incompletive suffixes.

?a?ni'šné? I have seen it (*?i-š see)
nakné?om he had just gone (*nak go, -om enc. "just")
na?maynitáwom it has just been said (*na?má?y say to
someone, -wom enc. "just") (for -ne? >-ni?, see 4.17)
éènniyáh they had tied themselves (*éen tie)

8.4. The number suffixes—order III. There are three number suffixes: -ta?m, used when either the subject or object (expressed by the nonthematic prefixes) is in the first or second person, and pluralizing either the subject or object; -yah, used when either the subject or object is in the third person, and pluralizing either the subject or object; -num, used as a collective plural of the third person subject. -ta?m, in its unstressed form -tam (4.9), is also the pluralizing suffix of first and second person pronouns, while -yah is the pluralizing suffix of third person pronouns (9.2). -tam and -yah also are used as

noun plural suffixes, but without the pronominal connotation (12.2). Plurality is unexpressed and contextually understood unless this would result in ambiguity, in which case it may be indicated in the ways discussed below.

VERB PLURALIZATION

There are three categories of first person subject or object plurals: the exclusive plural, the limited inclusive plural, and the generalized inclusive plural. The exclusive plural excludes the person or persons addressed. The limited inclusive plural includes the speaker and the person or persons addressed, and excludes any others who may be present or referred to. The generalized inclusive plural includes the speaker, person or persons addressed, and any other person or persons present, or absent and referred to.

The first person exclusive plural is formed with the suffix -ta?m with or without the personal pronouns, or by means of the plural personal pronouns without the suffix -ta?m.

?amoηtá?mpa we are sleeping (?a- 1st. per. i. p. pref. +
*moη sleep + -ta?m + -pa inc. suf.)

?\čta?m amónpa same meaning; 1st. per. pl. pron.
?\čtam has been used, excluding the verbal suffix -ta?m

?\`Xeta'm amonta'mpa same meaning; both 1st. per. pl. pron. and the verbal suffix -ta'm are used

ma?ni*štá?mpa *I see you* (pl.), we see you (pl. or sing.) (man- 1st. per. sub. 2d. per. obj. t. p. pref. + *?i*š see + -ta?m + -pa)

In the case of the transitive pronominal prefix ?an- which means both 1st. per. sub. 3d. per. obj. and 2d. per. sub. 1st. per. obj., the independent personal pronouns are often used to avoid ambiguity.

Without pronouns:

'a'ni štá'mpa I see them, we see him, you (sing.) see us, you (pl.) see me

With pronouns:

?\lambda a^ni \text{sta'mpa he'} yah \(I \) see them
?\lambda \text{tam a^ni \text{s(ta'm)} pa he'} \) we see him
?\lambda \text{tam a'ni \text{syahpa we see them}}
mi\text{a'ni \text{sta'mpa 'a'\lambda \text{tam you (sing. or pl.) see us (verbalized pron.)}}
mi\text{tam a'ni \text{sta'mpa 'a'\lambda \text{tam you (pl.) see us mi\text{tam a'ni \text{sta'mpa 'a'\lambda \text{tam you (pl.) see me}}}

The first person limited inclusive plural is formed by attaching the pronominal prefix ta-

(1st. per. pl. intransitive, and 3d. per. sub. 1st. per. obj. pl. transitive) or tan- (1st. per. pl. sub. 3d. per. obj. transitive) before the verb stem.

tamónpa we will sleep (*mon sleep) ta?ní·špa we see him (her, it, them) (*?i·š see) ta?í·špa he sees us

The generalized first person inclusive plural is formed by attaching both the plural pronominal prefixes ta- or tan- before the verb stem and the plural suffix -ta?m after the verb stem.

tamoŋtá?mpa we will sleep (*moŋ sleep) ta?ni'štá?mpa we see him (her, it, them) (*?i'š sce) ta?i'štá?mpa he (she, it, they) see us

The second person plural is expressed by the use of the suffix -ta⁹m, the plural personal pronoun, or both.

mimóηtá?mpa you (pl.) sleep (mi- 2d. per. i. p. pref., *moη sleep)

mičťam mimóηpa same meaning; plural personal pronoun used to express the plural

mìčťam mimontá?mpa same meaning; both plural pronoun and suffix used

?i?ni·štá?mpa you (pl.) see him mi?i·štá?mpa he sees you (pl.)

The third person plural is expressed by use of the suffix -yah. If both subject and object are in the third person the independent pronouns may be used to indicate whether subject or object or both are plural. When subject is first or second person and object third person, -yah pluralizes the object.

moŋyáhpa they sleep (*moŋ sleep)
nʌkyáhpa they go (*nʌk go)
'i?i·šyáhpa they see him, he sees them (*?i·š see)
hè?yah i?i·šyáhpa they see him
hè? i?i·šyáhpa pé?myah he sees them
hè?yah i?i·šyáhpa pé?myah they see them
'a?ni·šyáhpa I see them

The collective suffix -num is used to express action undertaken collectively or by a group. It has been observed only with the third person pronominal prefixes.

se tnúmum they just returned in a group (*se t return -um enc. just)

wi?knúmpam they were already eating in a group (*wi?k eat, -m enc. "just", "already")

8.5. The aspect suffixes—order IV. The iterative suffix -gak may be translated as "again," "once more."

miňgákpa he comes again (*miň come) wàsgaktá·p he is being bitten again (*was bite) mi²ì·šnigaktá· you have been seen again (*?i·š see) ?amònnigákpa I have slept again (*mon sleep) The desiderative suffix -to? may be translated by "wish" or "want."

?ayo·ša·tó?ba I wish to work (*yo·šá· work) miphkyahtó?ba they want to marry you (*pak marry) tamòntamtó?ba we want to sleep, are sleepy (*mon sleep)

8.6. The passive suffix—order V. The suffix—ta·indicates passive voice and is attached only to verb themes which in the active voice may take the transitive pronominal prefixes. Since in the passive voice there is no object, the intransitive pronominal prefixes (7.2) are used.

kuéattá· he was sent (*kuéát send)
?akhò·do?ηa·tá· he was informed (*?akhò·do?ηá· inform, lit. "cause to know")
?aĕi?tá·p I am given (*ĕi? give)
nanλknetá·wom he has just been taken (*nanák take)
miku²ttá· you were eaten (*ku²t eat)

8.7. The purposive suffix—order VI. The purposive suffix -tap is used to express an action that was intended or purposed but not carried out.

²anakka²táp I meant to kill him but didn't (*²akká? kill)
 ²amoηtáp I wanted to sleep but couldn't (*moη sleep) miñaktáp you meant to go but didn't (*nak go)

nàmayta táp it was going to be said but wasn't (*na?má?y say (to))

8.8. The modal suffixes—order VII. The subjunctive mode is expressed by the suffix -2iñ, which is used in phrases of possibility and exhortation. It may be preceded by the plural suffixes but has not been observed with other nonthematic suffixes.

.... 'iga yú'miñ that it may boil ('iga conj. "that," *yu'm boil)

tawi?gi?ñam shall we (lim. incl.) eat now? (*wi?k eat, -?am enc. "now")

?aěi?i?ñ anyo:šá:hi that I be given work (from a prayer)
 (*ěi? give, ?anyo:šá:hi my work)

na^γmá^γya ^γiηmáďi^γñ iñ.áyi say to him that he shall tell his name, (na^γmá^γya say to him, *^γaηmát tell, γiñ.áyi his name)

The imperative suffix -A is used only in the second person. The plural suffix -ta?m (8.4) placed before the imperative suffix forms the plural imperative. For transitive verbs the third person object is implicit unless first person object is to be expressed, in which case the verb is preceded by 'a-3d. per. sub. 1st. per. obj. t. p. pref. which substitutes for the 2d. per. sub. 1st. per. obj. t. p. pref. 'an-which one might logically expect to find. The imperative suffixes have been observed with no nonthematic suffixes other than the 2d. per. plural

suffix -ta?m. The temporal or limiting enclitic -m (15.2) is often used after the imperative suffix, in some cases frozen by usage.

nága go! (*nak go)
naktá?ma go! (plural)
pákam take it (him, her)! (*pak take, -m enc. "just")
húyam buy it! (*huy buy, -m enc. "just")
čí?a give it to him! (*čí? give)
?ačí?a give it to me!

8.9. The completive and incompletive suffixes orders VIII and IX. Tense is not expressed in Popoluca, but every action expressed by a verb which does not have a gerundial, modal, or purposive suffix must have a completive or incompletive aspect suffix. The completive, except in agentive and linear-punctual clauses, is expressed by a suffix which is phonetically zero, and the incompletive by a morpheme in which the phoneme p is initial. Since the completive suffixes designate an action which has been completed, they are usually to be translated by the English past tense. Since the incompletive suffixes designate an action which has not been completed, they are usually to be translated by the English present or future tenses. In a narrative an action may actually have been completed, but is not yet completed with reference to the other action of the narrative, and therefore may be given one of the -p- suffixes.

The incompletive suffix -pa may be attached to all verb themes except those of more than one syllable which end in -a^{*}, those having the non-thematic passive suffix -ta^{*}, and those ending in the reduced form of the verbal suffixes -?a?y, -?o?y, and -?a?y (4.10), in which cases the form -p is used.

?anákpa I am going (*nak go)
?a?ní·špa I see it (*?i·š see)
?a?i·šiá·p I am seen
?ayo·šá·p I work (*yo·šá· work)
taksob išá? he is (repeatedly) hitting (full form *taksó?y-

pa<*taks6?y keep hitting)

The incompletive agentive suffix -pa?ap indicates the doer of an action not yet completed. In order to take this suffix certain pronouns may be transformed into verbs through the same derivational process by which a noun is verbalized, i. e., the addition of the thematic suffix -?a· (6.11).

hè⁹m iño⁹pá⁹ap nás he who burns the earth (he⁹m 3d. per. pers. pron., *no⁹ burn, nas earth)

tùm animat taku⁹tpá⁹ap an animal that cats us (túm indef. art., animat animal (Sp.) *ku⁹t eat)

?i?a·pá?ap who is it? (lit. "who is the one who {does it]") (?i inter. pron. "who" + -?a* verb. thematic suf.)

mi?apá?ap who are you? (lit. "you are the one who [does it]") (mič 2d. per. pers. pron. > mi)
wa?à-yahpá?ap those who are able (*wa?á- be able)

The completive agentive suffix -w\(\alpha^{\gamma}\) ap indicates the doer of a completed action.

?iñλ?maynewʎ? np he is the one who said it (*nn?má?y say [to someone])

?ini?it hè?m pák ikka?wʎ?np he had the bone which killed him (?ini?it he had, he?m def. art., pak bone, *?akká? kill)

na snew A? Ap that which has passed (*na s pass)

THE LINEAR SUFFIXES

The linear suffixes -pam (incompletive) and -wam (completive) are used only with the linear verb form in clause constructions expressing linear-punctual contemporaneous action. The syntactic usage of verbs with these suffixes is discussed at length in 19.4.

²amoηpám as I sleep . . . (*moη sleep)
²awì?kniwám as I have been eating . . . (*wi?k cat)

9. PRONOUNS

9.1. Pronouns are personal, interrogative-relative, and demonstrative. All are monosyllabic stem morphemes except the negative pronouns formed by compounding, the demonstrative tungak (tum a + -gak), and the emphatic personal pronouns. The personal and the demonstrative pronouns may be inflected with the plural suffixes -tam and -yah. The others may not be inflected, except the interrogative-relative pronoun ti which is sometimes given the noun indirective suffix -ma, i. e., ti which, what + -ma > tima with which, with what.

9.2. The personal pronouns.

9.3. The emphatic personal pronouns. The bound stem -yá?ak, always used with the possessive pronominal prefixes, forms an emphatic pronoun, often used following and in apposition to the personal pronouns. The three emphatic pronouns are:

?anyá?ak myself ?iñyá?ak yourself ?iyá?ak himself

9.4. The interrogative-relative pronouns.

?i who hup which ti what, which 749667—48——4

9.5. The demonstrative pronouns.

ya?p this one ya?pyah these ones pe?m that one pé?myah those ones túngak the other one

9.6 The negative pronouns.

ďa?í no one (ďa neg. at. + ?i who) ďaťí nothing (ďa + ťi what)

10. THE NOUN THEME

10.1 A noun theme may be composed of a single, unanalyzable, thematic element, or stem, a frozen reduplicated stem, a stem consisting of two unanalyzable elements the first of which is reduplicated, a stem plus a thematic prefix or suffix, (rarely both) or a compound of two noun themes or an attributive theme and noun themes. Noun themes may be formed from verb themes by the addition of a thematic suffix.

Most noun themes ending in a vowel have a combining form (4.19) which omits the final vowel when suffixed or as the first member of a compound, e. g.:

yómo yom-woman móya moy-flower tékši tekš-skiri

THE NOUN STEM

10.2. Noun stems are mono- or disyllabic conforming to the patterns CVC, CVCC, CV.CV, CVC.CV, CVC.CV, CVC.CVC, and CVC.CVC. A few trisyllabic stems have been noted but it seems probable that these are either borrowed forms or capable of further analysis.

hon bird

¢u? night
hu?n owl
?á·.či uncle
ká.ma milpa
čáh.ka deaf mute
kú?n.ki squirrel
há.waŋ fever
píš.ťak flea
?a·tébet town
triŋlô?ka¢ (a one-legged witch)

Reduplicated noun stems are of the pattern CV(CV) or CVC(CVC) or a reduplication of the first syllable (CV) of a two-syllable stem.

¢λ¢λ aunt, older sister nóno mushroom núnu breast, nipple tútu penis héhe mosquito méme butterfly pó²po² fish trap ¢i¢ímat enchanted place (Sp. "encanto") pupúsu lung kukúma ring

THEMATIC PREFIXES OF THE NOUN

10.3. Most thematic prefixes of nouns are attached to one or two noun themes only, and are of unanalyzable meaning. A few are attached to a larger group of themes, and their meaning may be isolated.

10.4. Some prefixes of unanalyzed meaning:

kutúhka? rain storm (tuh rain) ?ákpak cheek (pak bone) ?ákta¢ molar (ta¢ tooth) hápak car of com (pak bone) wíñpak forehead (pak bone)

10.5. The simulative prefix ${}^{2}a_{\eta}$ - usually is used to form a noun theme that is similar to or possesses some resemblance to the noun theme to which it is attached.

?a?ηά·ñi pimple (?á·ñi tortilla)
?áŋ¢ay row, line, furrow (¢ay vine)
?aŋwí·ši mustache (wí·ši beard)
?aŋnáka edge (náka skin)
?aŋkó·bak top (kó·bak head)
?áŋkʌ? patio (kʌ? hand)
?aŋnáksʌ rafter (náksʌ stick)

10.6. The qualifying prefix ma- apparently has the meaning of "great".

ma¢á? star (¢a? stone) masáwa King of the Hurricane (mythological character) (sáwa wind)

10.7. The qualifying prefix way-means "small."

way¢á? pebble (¢a? stone) waypá·ñak a small variety of tick (Sp. "pinolillo") (pá·ñak tick)

wayčí-ča a net suspended from a hoop, resembling a small Popoluca-type cradle, used to store things (čí-ča hanging net cradle)

THEMATIC SUFFIXES OF THE NOUN

10.8. Most thematic suffixes of nouns are nominalizing suffixes attached to verb themes. Six suffixes of this type have been isolated. One suffix (locative) may be attached widely either to substantive or verb themes, and one (qualifying) may be attached widely to noun themes. There are a few other thematic suffixes of nouns analyzable as such and forming small groups of nouns of which they are a part.

10.9. The nominalizing suffix -i may be attached to many verb themes to denote the substance of the action.

?i·špáki friend (*?i·špák know) wi?kmóηi supper (*wi?k eat + *moη sleep) hípši (a) blaze (*hips burn) háyi voice (*hay speak) ?ákši grain of corn (*?aks shelled corn) wáči (a) drop (*wa¢ drip) ká·ñi (a) smell (*ka·n (to) smell)

10.10. The nominalizing suffix -kuy may be attached to many verb themes to denote act, instrument, or material.

hé¢kuy (a) comb (*he¢ comb)
?ſ:škuy eye (*?¡:š see)
wí?kkuy food (*wi?k eat)
yémkuy fire fan (Sp. "aventador") (*yem fan)
yo:šá:kuy work (*yo:šá: work)
páhkuy cage (*pah lock up)
má:čkuy toy (*ma:č play)

10.11 The collective nominalizing agentive suffix $-k \Lambda^2$ wih is attached to verb themes to indicate the habitual "doers" as a class. It is a collective agentive except in the word for *the devil*, wokk Λ^2 wih, lit. "barkers" (*wok *bark*).

yo·ša·kΛ?wih workers (*yo·šá· work) ?e¢kΛ?wih dancers (*?e¢ dance) wi?kkΛ?wih eaters (*wi?k eat)

10.12. The nominalizing suffix -a occurs rarely. It is attached to a few verb themes to denote the result or substance of the action.

háka piece (*hak break, shatter) pó?a piece (*po? break, split) tóya pain (*toy suffer)

10.13. The nominalizing suffix - A has been noted attached to three verb themes.

kípsa measuring stick (*kips test, measure) náksa stick (*naks hit) na?tá¢a thirst (*na?tᢠto be thirsty)

10.14. The nominalizing suffix $-a\eta$ has been noted attached to two verb stems.

púhaη crowd (*puh go out) hípsaη firebrand (*hips burn)

10.15. The locative suffix -kom may be attached to verb or substantive themes to indicate place.

?imoηkóm his sleeping place (?i- 3d. per. pos. p. pref. +
*moη sleep)

pahkóm cage (lit. "lock-up place") (*pah lock up)
pè?m kúy íť tómi takkóm that tree is near (the) house
(place) (pè?m kúy that tree, ?iť it is, tómi near, tak
house)

A specialized usage is warkóm which may mean either "a nice day" or "a nice place" (war nice, pretty)

10.16. The qualifying suffix -tuku is attached freely to noun themes usually to convey the idea of old, unserviceable, or unwanted.

taktúku old, unserviceable house (tak house) ¢e?stúku old, unserviceable bed (¢e?s bed) ko báktaktúku old, unserviceable hat (ko báktak hat) pu ktúku clothing (pu k- comb. form of pú ki cotton)

10.17. The suffix -ti has been observed attached to Spanish loan words and other unanalyzable bound stems. All of these words are of three syllables, atypical in that the accent falls on the first syllable. The suffix -ti is itself atypical in that the t does not palatalize, following the usual pattern.

kúkuhti coconut palm (Sp. "coco") lúpuhti wolf (Sp. "lobo") šúnuhti supernatural being in cat form šíkuhti a type of bee kákašti cage

10.18. Miscellaneous suffixes. There are a number of miscellaneous suffixes of which one or more examples have been noted but the significance of which is not clear.

suf. -či tákči cockroach (tak house) kímči (a) cold (kim-comb. form of kími nose) suf. -ñi sáŋñi daytime (saŋ sky) suf. -ka kutúhka rainy season, rainstorm (tuh rain) kánka throat (*kan taste) pó?ka pus (*po? split, break)

COMPOUNDING

10.19. The most productive type of compounding is that of a noun theme and an attributive locator. Other types are those of noun theme plus noun theme, or attributive theme plus noun theme.

10.20. Compounds of noun theme plus locator. Most locative concepts indicating position in relation to nouns, that may not be expressed by the use of nonthematic locative suffixes, are expressed by the compounding of a noun with a locator.

takkô bakvúkma on the house-top (takkô bak house-top + yúkma above)

ko pkúkma in the center of the plain (ko p- comb. form of ko pa plain + kúkma in the center) taknášwiň under the house (tak house + nášwiň under)

10.21. Compounds of noun theme plus noun theme. The second theme is the head of the compound.

cayčí ča hammock bridge (cay vine + čí ča woven net

kuykó bak tree trunk (kuy tree + kó bak head)

kò sok 6 ak knee boots (kó so knee + k 6 ak shoe) ?àpiččíhi porcupine (?ápič thorn + číhi fox) kh?anki·ñi finger tip (kh? hand + ?anki·ñi tip or point < ?an-sim. pref. + kí·ñi nose) na?annáka edge of the water (na? water + ?annáka edge) yo'mtá'wa sister (yo'm- comb. form of yó'mo woman + tá·wa sibling)

10.22. Compounds of attributive theme plus noun theme. The attributive is always placed in the initial position.

šūtuna? small stream (šūtu small + na? water) pa?má·ñi thick tortilla (Sp. "gordita") (pam thick + ?á·ñi tortilla) pophúkta? a white candle (pop-comb. form of pópo white + húkta? fire) tomtá·wa neighbor (tom-comb. form of tómi near + ta·wa sibling)

10.23. Noun compounds of inflected verb plus noun. Phrases of an inflected verb (which may have an enclitic -m) and a subject noun involving the movements or position of the sun or moon are treated both formally and syntactically as a noun unit.

kl?mpamháma east (kí?mpam it rises + háma sun) tagaypamhama west (tagaypam it just enters) kukehháma sunrise (kukéh it appeared) kůga páma noon (kugá p it is in the center) kůga péú? midnight (kugá p + éu? night)

11. NONTHEMATIC PREFIXES OF THE NOUN

11.1. There is one paradigmatic set of nonthematic prefixes of the noun. These prefixes correspond to the third person object, transitive, nonthematic prefixes of the verb, and are attached to noun themes to indicate pronominal possession of that noun.

?an-1st. per. sing. or pl. tan-1st. per. incl. pl. man- 1st. per. possessor 2d. per. possessed in direct discourse ?iñ- 2d. per. sing. or pl. ?i- 3d. per. sing. or pl.

Examples:

?antAk my (our) house tanták our house ?intak your (sing. or pl.) house ?itiak his (their) house manęńsi you my child! (¢ńsi child)

12. NONTHEMATIC SUFFIXES OF THE NOUN

12.1. There are two plural suffixes of the noun, which correspond to the plural suffixes of verbs and pronouns, but without a corresponding pronominal reference, and five case suffixes of locative, indirective, and durative reference. No noun has been observed with more than one nonthematic suffix.

THE PLURAL SUFFIXES

12.2. The two pluralizing suffixes attached to noun themes are -tam and -yah (cf. verb and pronoun pl. suffixes 8.4, 9.2). Often neither is used, since pluralizing of nouns usually is implicit or accomplished by use of verb pluralization. -tam is used to pluralize nouns signifying human beings, and -yah to pluralize those signifying animals and objects. -tam, when used with the first person possessive pronominal prefix ?an-, may pluralize the possessor rather than the noun possessed. Insufficient data were obtained on the use of plural suffixes with other possessive pronominal prefixes.

¢´A·šťam children (¢´A·š-comb. form of ¢´A·ši child)
yōʻmtam women (yoʻm-comb. form of yōʻmo woman)
mánaktam sons (mának son)
kúyyah trees (kuy tree)
číʻmpayah dogs (čí·mpa dog)
tákyah houses (tak house)
?antáktam our house (?an-1st. per. pos. p. pref.)

THE CASE SUFFIXES

12.3. The five case suffixes are used to indicate location, duration, and indirection. Three of these suffixes are composed of unanalyzable morphemes, but the other two are composed of a simulative element like that of the thematic noun prefix $-9a\eta$ (10.5), plus one of the suffixes of the first group. Directional concepts such as motion to or from an object can be expressed only by the use of such verbs as those meaning "go in" or "go out," while the noun keeps the same locative suffix indicating static position.

12.4. The locative-durative suffix -ka?m means "at" or "during." Used with verbs of motion it may be translated as "to" or "from."

éu?ká?m during the night (éu? night)

nòko 'sit tùm ták antakká'n a house is near my house (nóko near, 'sit tùm ták there is a house, 'anták my house)

tanákpa na⁹ká⁹m we go to the river (tanákpa we [inel.] go, na⁹ water, river)

?amíñpa ?iñťakká?m I come from your house (?amíñpa I come, ?iñťak your house)

kukèhak 6°m in the morning (kukéha morning)

12.5. The locative suffix -hom indicates position within or among.

tagá?ypa ?iťakhóm he enters (into) his house (tagá?ypa he enters, ?iťak his house)

[?]a¢λypa yλ[?]p takhôm I am going to stay in this house ([?]a¢λypa I am going to stay, yλ[?]p this, tak house) wánpa [?]ilìbrohôm he reads his book (wánpa he reads,

?ilibro his book [Sp. "libro"])

²ayo'šá'b aŋka'mhóm I will work in my milpa (ayo'šá'p I will work, ²aŋká'ma my milpa [comb. form ka'm-]) ²išúŋpa tùm ko'bàktakhóm he takes it out in a hat (²išúŋpa he takes it out, tum indef. art., ko'báktak

hat)

12.6. The indirective suffix -ma may be translated as "with," "at," or "to." It may not be attached to nouns designating human beings.

nákstá: ¢áyma he was hit with a vine (nakstá: he was hit, ¢áy vine)

mimíňpa ?antákma you come to my house (mimíňpa you come, ?anták my house)

?a?íd antákma I was at my house (?a?ít I was)

manh_Λ⁹mkf⁹mpa tápšma *I will raise you with (the)*rope (manh_Λ⁹mkf⁹mpa *I will raise you*, tapš-[comb.
form of tápši rope])

Piñó?ba Piťúéma he burns it with his tail (Piñó?ba he burns it, Piľúé his tail)

A variant -m has been observed only with the noun na? "water":

nákpa ná?m he go.s to the water (nákpa he goes)

12.7. The suffix -?aηhóm (cf. sim. noun pref. ?aη- and loc. suf. -hom) expresses position "among."

nákpa tàgazhóm he goes into town (lit. "among the houses") (nákpa he goes, tak house sing. or pl.)

?ikótpa ipuktùganhóm she thrusts it among her clothing (?ikótpa she thrusts it, ?ipuktúk- [3d per. pos. p. pref. + comb. form of puktúku] her clothing)

12.8. The suffix $-2\eta k \Lambda^2 m$ (cf. sim. noun pref. $2\eta + 1$ loc. suffix $-k\Lambda^2 m$) expresses position "at."

nákpa iťù?ñaηká?m he goes behind him (lit. "at his back") (nákpa he goes, ?iťú?ñ- 3d. per. pos. p. pref. + comb. form of ?iťú?ñi his back)

13. ATTRIBUTIVES

13.1. Attributives are noun, verb, or phrase modifiers, and include descriptives, locators, tensors, intensifiers, demonstratives, participial adverbs, interrogatives, quantitatives, negatives, conjunctions, and interjections. Although sometimes found with nonthematic affixation of nouns, often in stereotyped form, they are largely uninflected. This classification of attributives is a loose one, since many attributives can be used in various ways syntactically, and there is much overlapping of categories.

13.2. Descriptive stems may be monosyllabic, disyllabic, and reduplicated of the same patterns

as noun stems. Most descriptive themes are simple stems and include such words as war good, pretty, éába¢ red, hókoš hot, pópo white, súksuk cold, and the like. A few are compounded of two descriptive stems, e. g., pôha¢ába¢ pink (póha faded+¢ába¢ rcd). In some cases a descriptive may function as a noun, with nonthematic affixation of nouns, e. g., "inwa ma with your goodness. A descriptive may also occasionally be given a noun plural suffix, e. g., ¢ába¢yah kan red tigers (¢ába¢ red, -yah pl. suf., kaη tiger). Some descriptives ending in a vowel have a combining form like that of nouns (10.1), used when they are compounded or suffixed, e. g., pophúkta candle (popcomb. form of pópo white + húkta fire).

13.3. Locators usually are stereotyped forms of a bound stem plus the noun indirective case suffix -ma (12.6). A thematic prefix ?aη- probably equivalent to the noun thematic prefix (10.5) is often found with words of this category. Some of the most common locators are: yúkma above, múhma in the center, kúkma in the center, halfway, hóhma deep, hu²ma far, ²aηsákma outside, ²aηwá·ma to the right, right hand (wa· good), ²aηnáyma to the left, left hand. The suffix -wiñ is attached to two noun stems to form locators: nášwiň down, below (nas earth), sáŋwiň up, above (saŋ sky). As noun modifiers locators are freely compounded following a noun theme (10.20).

13.4. Tensors are monosyllabic or disyllabic themes, some with a suffix -ak. Most commonly they are used adverbially to give a time orientation to the modified verb or phrase. Some of the most common tensors are winak long ago, hésak then, when, maták yesterday, hóyma today, 'idak imperfective tensor, 'ókma afterwards, then, hóbit soon, sá'ap now. A tensor may occasionally modify a noun, e. g., wìnak pá'šiñ men of long ago.

13.5. Intensifiers are most commonly used adverbially. They indicate concepts such as "very" and "also." Some intensifiers are stereotyped forms of a stem plus an enclitic. Some of the most common are: ¢am very, ?ága (?ági, ?áki) very, how, meš also, éya also, éybak again (enc. -pak), káktim also (enc. -tim).

13.6. Demonstrative adjectives are the demonstrative pronouns used as noun modifiers: y_{Λ} p this (this one), pe'm that (that one), and túngak which varies with túngam another. The third person pronoun he? he, she, it should also be included here in its usage as the definite article.

The demonstrative adjectives, except túηgak/túηgam, and the definite article may be given the pluralizing suffix -yah. Demonstrative adverbs are ya⁹m here, hem there, hémak there, hé⁹šak there.

13.7. Interrogatives include both simple stem and compound stem interrogatives, two formed with a thematic suffix $-\xi a\eta$, and one consisting of a stereotyped form of stem plus the noun indirective suffix $-m_{\Lambda}(12.6)$. The interrogative adjectives are hup which (also inter. pron.) and hu'\xi\xi\text{ what kind of, how, which may also be used adverbially. Interrogative adverbs are hu\ximim mat to where, \ti'\text{ii'ga why (\ti\text{ii inter. pron. "what"} + '\text{iga conj. that), hu'\ti\text{ where, hu\ximim at o where, how much, \ti'\text{ea}\eta, how is it that, to what (\ti\text{ii inter. pron. "what"). Most interrogatives may also be used as relatives.

13.8. There are several quantitative adjectives which have a thematic suffix $-a\eta$ or $-p\Delta y$.

hésan, this much, this many Túšan a little há'yan much, many húépay how much, what size

13.9. There are two negatives, da and ?ódoy. da is used in all but modal clauses. ?ódoy is the modal negative, used in imperative phrases and subjunctive clauses. A compound theme dakéman means "never."

13.10. Conjunctions are simple stem and compound stem themes, and stereotyped themes of a stem plus an enclitic. Some of the most common conjunctions are 'iga that, as, húnum since, as, ígatim it is that, 'íganam while, he'yúkma for this, that is why (he' 3d pers. pron. + yúkma above, on), hésak when, mu (ma, mo, mi) when, 'i and (probably Sp. "y"), mé'iga if ('iga that), mé'da if not, tí'iga because (tí rel. pron. "what" + 'iga that).

13.11. Interjections include phrase words as ha yes, da no, mop certainly, and any exclamatory.

13.12. Participial adverbs are formed from verb themes plus the suffix -ímu, e. g., šikímu laughing (*šik laugh).

14. ENUMERATIVES

14.1. Popoluca numbers beyond six have been replaced by Spanish. Numerals (except "one") are always composed of a bound stem plus non-thematic affixes. There are two suffixes for cardinal enumeration. These seem roughly to divide into temporal and objective categories. There are, however, many exceptions, so that it

can only be said that some nouns always are modified by numerals with one suffix and other nouns by numerals with the other suffix. Pronominal enumeration such as "both of us" or "all three of them" is done by means of both prefixation and suffixation, while adverbial enumeration is accomplished by means of suffixation alone.

14.2. The enumerative suffix -ten is attached to all numeral stems except tum one for counting when no noun is modified, and for enumerating objects, usually nontemporal.

1. tum 2. wastén 3. tukutén 4. maktastén

5. mostén

6. tuhtutén

Examples of use:

wastèn čí mpa two dogs hè?m tukutén the three maktastèn pá·šiñ four men mostè?n ámitu five years (?ámitu year) wastèn háma two suns (cf. 14.3)

14.3. The suffix -na is used in enumeration of nouns, usually but not always periods of time.

wasnà háma two days maktasnà šemána four weeks (Sp. "semana") tukunà túmin three coins mosnà ?annáka five sides wahāà háyi many words (wah- < wat- [t > h 4.8] comb. stem. of wati many) wasnà kukéha two (o'clock in the) morning

14.4. Pronominal enumeration is accomplished by means of both prefixation and suffixation, and may be translated "all (number) of us, you, them." All pronominal numerals are given one of the possessive pronominal prefixes followed by the prefix ku- (k- or kuk- before the stem "two"). Only the number "two" is given a special suffix, -tak. (The suffix -tak also is given to the stem was- in its use as a tensor followed by the noun ind. suf. -ma < wastákma day after tomorrow, cf. maták tomorrow.) The other numeral stems are unsuffixed (save for the plural suffix) except "five" which retains the enumerative suffix -ten.⁷ First person pronominal numerals, like verbs, may be either inclusive or exclusive. The inclusive numerals (including the person or persons addressed) are given the plural possessive pronominal prefix tan-, while the exclusive numerals (excluding the person or persons addressed) are given the possessive pronominal prefix ?an- and the plural suffix -tam. The second person numerals are given the possessive pronominal prefix ?iñ-, and may or may not be given the plural suffix -tam. The third person numerals are given the possessive pronominal prefix ?i-, and may or may not be given the plural suffix -yah. The enumerative túmpay "all" lacks the prefix ku-.

tankwástak both of us (incl.) (was-stem of "two" +

?ankumáktastam all four of us (excl.) (máktas- stem of "four")

tankumostén all five of us (incl.) (mos-stem of "five")

?inkwistak both of you ?intumpaytam all of you

?ikumáktasyah all four of them

?akt.ínpa ?ikukw.ístak he?m p.í.šiñ both of the men fall (?aktληpa he (they) fall(s), hè?m ph'šiñ the man (men)

14.5. Adverbial enumeratives are given the suffix -kay.

wáskav twice máktaskay four times wátkav many times (wáti many)

15. ENCLITICS

15.1. There are a few one-syllable enclitics which may be attached to a formally complete word of any class to qualify or intensify the significance of the word or phrase. In the case of a few attributives the stem is never used without the enclitic. Substantives with a combining form use the combining form when an enclitic is attached.

15.2. The temporal or limiting enclitics. The morphemes -?am, -m, -um, -om, -wum, and -wom are most conveniently described as variants of the same enclitic, temporal when attached to verbs or verbalized nouns, and temporal or limiting when attached to nouns, pronouns, and attributives (no form has been noted attached to enumeratives). Although the only constant feature of this enclitic is the final -m, the meaning, though somewhat variable in English translation, is constant, and may usually be translated by the Spanish "ya," which in English must be interpreted variously according to the context as "just," "already," "truly," "only," or "now."

The variant -?am is used after nouns, pronouns, stative verbs, verbs with the nonthematic incompletive suffix -p, verbs with the nonthematic

⁷ The extreme irregularity of this inflectional system in contrast with the great regularity which characterizes the rest of Popoluca morphology would lead one to believe that it has broken down through the infiltration of Spanish numerals

subjunctive suffix -?iñ, verbs with the agentive suffix -wá?ap, and most attributives.

?ʎčam just I (or, "I am the one who") (?ʌč I) sh?ʌp nùma wʎ·?am now certainly it is truly good (wʌ· good st. verb) sʎ?ʌbam right now (sʎ?ʌp now)

hésagam just then (hésak then)

?iga ?ídi?ñam that he should then be there (?iga that + *?it be [there] + -?in subj. suf. + -?am)

hè? iŋhám 'iga kù'n ihá'yagam 'ikyú'niñ he believed that just with his little brother-in-law he should boil it ('ihá'yak his little brother-in-law)

?awa?á·bam I am already able (wa?á·p I am able) ku?tá·bam it is just eaten (ku?tá·p it is caten)

The variant -m is used after verbs with the imperative suffix -A and words ending in a, of which those ending in the incompletive verbal suffix -pa are the most frequent. It is also used after the negative ?ódoy which loses the final y, ?ódom not anymore, and sometimes after the definite article he?.

%úkam just drink! (%úka drink!)

nákpam ná?m he is just going to the water (nákpa he is going)

²amόηpam I will just sleep (²amόηpa I sleep, I will sleep)

dam already not (da not)

hè?m píyu just the chicken (he? def. art.)

The variant -um is used after a few attributives.

hémum just there (hem there) yá?mum just here (yá?m here)

The variant -om is used after the linear nonthematic verbal suffixes -wam and -pam (8.9) and the perfective suffix -ne? (8.3).

Pińakwamom just as he was going (*nak go)

?iñakpámom just as he is going

?anakné?om I had just gone

mimoηné?om you had just slept (*moη sleep)

The variants -wom and -wum vary freely after a (as the passive suffix -ta and the verbalizing suffix -?a).

nanaktá wom he was just taken (*nanák take)
?ači?ťá wum I was just given (*ci? give)
wa?á wum or wa?á wom he was then able (*wa?á be
able)

After any verbal form other than those stated above, -um, -om, -wum, or -wom may be used interchangeably, although -wum and -wom are most frequently found following nasals, and -um is perhaps the form most frequently used.

[?]anákum I just went mónom he just slept tapastá?ηwom we (gen. incl.) just arrived (-ta?m pl. suf.)

?anakka?t\(\'appum I \) just meant to kill him (-t\(\appu\)purp.\(\suf.\))

15.3. The temporal enclitic -nam may be translated as "yet" or "still" (Sp. "todavía").

ďánam not yet (ďa not)

?íñam who still (?i who)

?iganam while (?iga that)

?anaηhamné?nam I had still believed it (?anaηhamné?
 I had believed it)

¢n°yñé°na°m aηko·báktak my hat had still remained (¢n°yñé° it had remained)

hè?na?m ammá?ypa still it I will sell (hé? it) (more freely, this yet remains for me to sell)

15.4. The limiting enclitic -tim usually may be translated by "only," "then," or "just."

?ĸčtim only I (?ĸč I)

hè?tim háma just this day (he? the, háma sun)

Pipáktim ¢Λ⁹y only his bones remained (Pipák his bones)
Póytim then he went (Poy defective verb "go" used only in compl. asp.)

15.5. The particularizing enclitic -pak most commonly is attached to attributive forms, and less frequently to nominal, pronominal, or verbal forms. A special usage is that of the formation of a temporalized noun by the suffixation of the enclitic -pak to a nominalized verb (with the suffix -i, see 10.9). -pak may be translated as "that which (is)," "he who (is)," or "having the quality of."

wà·bak pá·šiñ a good man (wa· good)

màhpak čí mpa a large dog (mah large)

minatitlánpak one from Minatitlan

h6⁹m ďàpak iη¢ó^{*}η he who didn't answer (he⁹m he + ďa neg. + pak + ⁹iη¢ó^{*}η he answered)

?impátnè? wʎ·bʌk you have found that which is good
(?impatné? you have found)

?imatoηpákpak he who listened (?imatoηpák he listened)
?ammóηipak héšpam hè?m éu?yá· after I went to sleep
thus it became night (?an- 1st. per. pos. p. pref. +
*moη sleep + -i nom. suf. + -pak, modif. héšpam
it is thus)

Pišć·čipaga⁹m ipátpa hè⁹m pá·šiñ just after his return he met the man (?i- 3d. per. pos. p. pref. + *se·t return + -i + -pak + -?am enc. "just," modif. ?ipátpa he met him)

15.6. There are two quotative enclitics which may be attached after any word in a quoted phrase. The first person quotative is -wey *I said*, *I say*, and the third person quotative is -?un he said, he says, it was said, it is said.

dá?un he says "no" (da neg. at.) miñákpa?un he says "are you going?" (miñákpa you are going) dawey I said "no"

?iºuºn iññ xyi he says "what is your name?" (lit., "who," he says, "is your name") ('i who + -oun + oiññ xyi your name [is])

?i?úkpa?un ná? it is said that he drinks water (?i?úkpa he drinks, ná? water) 15.7. The enclitic -?am often is attached after the enclitic -pak, e. g., máhpagam he is already big. The enclitic -tim occasionally follows -pak, e. g., ?éybaktim just again. These are the only constructions in which two enclitics have been observed together.

SYNTAX

16. GENERAL REMARKS

16.1. Popoluca word classes, which have been discussed from the standpoint of the morphological processes used in their formation, serve syntactically according to their various functions. Verbal forms function as predicative words in simple sentences, or in main modifying or subordinate clauses. Independent pronouns and nouns serve as independent subjects and objects. Certain nouns also may serve as verb modifiers. Attributives serve as noun or verb modifiers or phrase or word connectives. Enumeratives serve as noun or verb modifiers or as independent subjects or objects.

These syntactic elements are combined into clauses of various types. Main clauses are formed as simple sentences except in constructions with contemporaneous and gerundial clauses where the structure of the main clause verb undergoes certain changes. Modifying clauses are juxtaposed or connected with a main clause by a conjunction or a relative attributive. Subordinate clauses may be agentive, contemporaneous, or gerundial. Word order is not rigid, but certain rules may be laid down within the bounds of which syntactic elements may be combined into phrases.

17. THE SIMPLE SENTENCE

17.1. The simple sentence must contain one, and not more than one, predicative verbal form, which may be either a verb theme with non-thematic affixes, or a stative verb. Other words may be incorporated into the simple sentence in their functions as subjects, objects, or modifiers of the verb, subject, or object.

?apá·Siñ I am a man (the noun pá·Siñ verbalized) miñakné?om you have just gone (*nak go) na?mayťá·p it is said (*na?má?y say to) kà?neyáhum they have just died (*ka? die) wlñak hè?m kó·ya ?ikú?tpa šánťa a long time ago the rabbit was eating watermelons (wíñak a long time ago + he?m the + kó·ya rabbit + ?ikú?tpa he eats + šánťa watermelon [Sp. "sandía"])

hèmum pútpa wastèn iñčí:mpa right there your two dogs will come out (hémum right there + ?ipútpa he [they] will come out + wastén two + ?iñčí:mpa your dog[s])

sh?ap impákpa yh?p pášiň now you will marry this man (sá?ap now + ?impákpa you will marry him + ya?p this + pášiň man)

?λe yλ?m amóηpa I am sleeping here (?λě I + yλ?m here + ?amóηpa I sleep)

hèsak nákum ihà·tuŋká?m then he just went to his father (hésak then + nákum he just went + ?ihà·tuŋká?m to his father)

wìñak hờ am £á šťam ininák iể uñhá tuŋ a long time ago only the children went with their stepfather (wiñak a long time ago + hệ am only the + £á šťam children + ininák he [they] went with + iể uñhá tuŋ his [their] stepfather)

Pôkma nakyáhpa hèmak hôhma húmñi then they go there deep in the forest (Pókma then + nakyáhpa they go + hémak there + hóhma deep + húñiñi forest)

me?ftá:wom tùm yó:ya ?i tùm šíš i tùm čó:mo a pig and a bull and an old woman were then searched for (me?ftá:wom were then searched for + tum a + yó:ya pig + ?i and + tùm šíš a bull + ?i and + tùm čó:mo an old woman)

17.2. Interrogative sentences generally are not distinguished syntactically from other simple sentences. A slightly rising intonation on the final word may be the only indicator of a question. Some questions are, however, preceded by an attributive, ke, which probably is derived from the Spanish "qué."

kè póypa sáwa *is it windy*? (lit. "does the wind run?") kè móηpa *is he asleep*?

18. MODIFYING CLAUSES

18.1. Clauses modifying verbs are of three types: those which are juxtaposed preceding or following a main clause; those which precede or follow a main clause and are introduced by a conjunction; and those which precede or follow a main clause and are introduced by a relative pronoun or attributive. A relative clause may modify a

noun which it follows. In all types of modifying clause construction the main clause is formed like a simple sentence.

JUXTAPOSED CLAUSES

- 18.2. The perceptive clause. In this type of construction the action of the subordinate verb takes place simultaneously with and is seen or heard by the subject of the main verb. The subordinate verb is best translated by the English present participle. The two clauses may be merely juxtaposed rather than connected by an attributive, and both are formed like simple sentences.
 - ?i?f·špa míñum ¢àba¢ káη he sees a red tiger coming (?i?f·špa he sees + míñum it just comes + ¢ába¢ red + kaŋ tiger)
 - ?i?í·špa sh²np išé?t sámñi he now sees bananas frying (?i?í·špa + sh²np now + ?išé?t it fries + sámñi banana)
 - ?imatóηpa tíñpa he hears it making a noise (?imatóηpa he hears + tíñpa it makes a noise)
 - ?imatóηpa ?a?ηá?ypa ták he hears a house (door) open (?imatónpa + ?a?ηá?ypa it opens + tak house)
- 18.3. The juxtaposed discourse clause. Clauses of direct discourse, and occasionally of indirect discourse, are preceded in the main clause by some form of the verbs *nam say or *na?má?y say to, and may be juxtaposed following the main clause. Both clauses are formed like simple sentences.
 - námpa hè?m pá·šiň pòs ini?íť tùm ¢úkťiň the man says, "well, she has a birthmark" (námpa he says + hè?m pá·šiň the man + pos well [Sp. "pues"] + ?ini?íť she has + tùm ¢úkťiň a birthmark)
 - námpa hủ? Ở aknúknetà: húkta he says, "where has fire been gathered?" (námpa he says + hu?ť where + ?aknùknetá: it has been gathered + húkta fire)
- 18.4. The juxtaposed stative verb clause. Stative verb clauses may be juxtaposed preceding or following a main clause.
 - una ves mimahtá?mam yð?mayťá:wom once you are big you will then be married (mimahtá?mam you are big st. verb, yð?maytá:wom you will then be married [lit. "you were then wived"])
 - dà wś. ?angśk it is not good to take it (lit. "it is not good I took it") (wś. st. verb it is good, ?angśk I took it)
 - mič iňam mipákpa ¢àm mikuťiň you, who still will marry you, you (who) are so lazy? (mipákpa he will marry you, mikuťiň you are lazy st. verb)
- 18.5. The juxtaposed temporal clause. A clause giving a time reference to a main clause may be juxtaposed preceding it.

núkpa kùgapáma wí?kpa at noon they will eat (lit. "noon arrives, they eat") (núkpa it crrives verb of subordinate clause modif. wí?kpa they will eat)

CLAUSES INTRODUCED BY A CONJUNCTION

- 18.6. Clauses introduced by a conjunction may either precede or follow a main clause. Both clauses are formed like simple sentences. The conjunction 'iga that, as, is often used to introduce indirect discourse clauses (occasionally direct discourse) as well as subjunctive and other clauses.
 - ?\lambda a^i\text{itu}^m iga ^aku^tt\text{itp} I am just here that I be eaten (\gamma_{\text{A\colored}} I + \gamma_a^i\text{itum} I am just here + \gamma_{\text{iga}} that + \gamma_{\text{aku}}^t\text{t\text{ita}} I am \epsilon aten)
 - si?iga mičam inikká? miąko?má?ypa if you (are the one who) killed him, she will marry you (si?iga if (Sp. "si") + mičam you (are the one who) + ?inikká? you killed him + miąko?má?ypa she will marry you)
 - ?akna:stá: ?a cabáyo porkeťi?iga magó?y he was passed on a horse (fig. "torn apart by horses") because he deceived (?akna:stá: he was passed + ?a cabáyo on a horse [Sp.] + porkeťi?iga because (Sp. "porque") + magó?y he deceived)
 - simaďa ?aněímpa ďa ?apí.spa if (it were) not for my dogs I would not revive (myself) (simaďá if not for [Sp. "si") + ?aněímpa my dog(s) + ďa neg. + ?apí.spa I revive [myself])
 - kun hè?a?m ihúypa pàra?iga ?ikú?tpa with it he buys something so that he cats it (kun with (Sp. "con") + hé?am it + ?ihúypa he buys it + pára?iga so that (Sp. "para") + ?ikú?tpa he cats it)
 - mè?iga ?iŋwh?aŋhám ?hčam mampákpa if you like I will marry you (mé?iga if + ?iŋwh?aŋhám you like + ?hčam I [am the one who] + mampákpa I will marry you)
 - námpa ⁹aηhagó'yi 'liga tammá¢pa pè'm pá'šiñ the authority says that "we will seize that man" (námpa he says + ⁹aηhagó'yi the authority ["public official"] + ⁹iga that + tammá¢pa we [lim. incl.] will seize + pe'm that + pá'šiñ man)
 - ?anámpa ?iga ?anák I said that I went (?anámpa I said + ?iga + ?anák I went)
 - námpa [?]iga ďa nakné? he says that he has not gone (námpa he says + [?]iga + ďa neg. + nakné? he has gone)
 - ?akpútpa ?iga nágiñ she made him leave that he might go (?akpútpa she made him leave + ?iga that + nágiñ he might go)
 - wi?ktá?mum mának mipa·tá?miñ eat, children, that you may get fat! (wi?ktá?mum eat! [pl. imp.] + mának child + mipa·tá?miñ that you [pl.] may get fat)
 - hè? iŋhá?m iga ?ikyú?miñ he believed that he should boil it (he? he + ?iŋhám he believed + ?iga + ?ikyú?miñ he should boil it)

RELATIVE CLAUSES

18.7. Relative attributives and pronouns may introduce modifying clauses which are otherwise

formed like simple sentences. The relative clause generally but not always follows the main clause. A relative clause modifying a noun directly follows the noun.

?ì dúη hủ°t ká npa sámñi who knows where it smells of bananas (?i dúη who knows + hu°t where + ká npa it smells + sámñi banana)

ďa ?a?ni·špákpa hù?¢ hèsak yú·mpa I don't know how (it is) when it boils (ďa ?a?ni·špákpa I don't know + hu?¢ how + hésak when + yú·mpa it boils)

?a?ná·pa ďa ?iwλ?aηhá?m ì ?amλgoyá?ypa my mother doesn't like who (ever) deceives me (?a?ná·pa my mother + ďa ?iwλ?aηhám she doesn't like him + ?i who + ?amλgoyá?ypa he deceives me)

<code>?ankup.ik</code> húbam mìč anna<code>?má</code>?y I believed that which you said to me (<code>?ankup.ik</code> I believed + húbam [hup < which + -<code>?am</code> enc. "just"] + mìč anna<code>?má</code>?y

you said to me)

?a?ni·šp.kpa ti ?ini?it I know what you have (?a?ni·šp.kpa I know + ti what + ?ini?it you have) mie miñ.kpa ka·póm tima tanakkú¬pa ?á·ñi you will go to (get) firewood with which we will cook tortillas

go to (get) firewood with which we will cook lortillas (tima with which intro. clause modif. ká pi firewood [ka póm into the firewood < ka p- comb. form of ká pi + -hom loc. suf.])

hè?am iwà ¢agá?ypa ?ičé?s hù?ť móηpa she fixes his bed where he will sleep (hu?ť where intro. clause modif.

?ičé?s his bed)

19. SUBORDINATE CLAUSES

19.1. There are three principal types of subordinate clauses: agentive, contemporaneous, and gerundial. The main clause in an agentive clause construction is formed like a simple sentence, but the verb of the main clause in certain contemporaneous and gerundial constructions must undergo morphological modifications in structure.

AGENTIVE CLAUSES

19.2. The verb of the agentive clauses is formed with the agentive suffixes -pá?ap (incompletive) and -wά?ap (completive), and the transitive or intransitive pronominal prefixes in accordance with the inherent transitivity or intransitivity of the verb theme. Both main and agentive clauses are formed like simple sentences and either may precede the other. An agentive clause subordinate to a noun must follow the noun.

ná spa ?ima ypá ap paléna one who sells brown sugar passes (by) (ná spa he passes + ?ima ypá ap one who sells + paléna brown sugar [Sp. "panela"])

ďa ?i?i·špák si hè?am pá·ši?ñ iñà?mayñewá?ap she docsn't know if it is the man who has spoken to her (ďa ?i?i·špák she doesn't know + si if [Sp. "si"] + hè?am pá·šiň the man + ?iňà?mayňewá?ap he who has spoken to her)

hè?m pá·šiň hè?m iŋéo·ŋwá?ap mò?ŋaŋhakyáhpa the men, those who answered, remained asleep (hè?m pá·šiň the man [men] + he?m he [they] + ?iŋéo·ŋwá?ap he [they] who answered + mò?ŋaŋhakyáhpa they remained asleep)

hèmu⁹m ini⁹íť hè⁹m pák ikka⁹wá⁹ap there he had the bone which had killed him (hémum there + ⁹ini⁹íť he had + hè⁹m pák the bone + ⁹ikka⁹wá⁹ap that which

killed him)

CONTEMPORANEOUS CLAUSES

19.3. There are two types of contemporaneous sentence constructions. In the first the action of the subordinate verb is linear, and that of the main verb punctual. In this case the subordinate verb theme is given special suffixes. In the second type the action of both subordinate and main verbs is linear, and the two clauses are joined by a conjunction. In both types the pronominal prefixes undergo changes.

19.4. Linear-punctual contemporaneous clauses. The action of the subordinate verb is linear while that expressed by the main verb is punctual. The subordinate verb theme is given the suffix -wam if the action is completive in aspect, and -pam if the action is incompletive (8.9). The transitive pronominal prefixes are used with the subordinate verb theme regardless of the normal transitivity or intransitivity of that verb. When the conjunction ma (mo, mu, mi) (13.10) since, when is used to introduce the main clause, the transitive pronominal prefixes are also always attached to the main verb theme.

?aηwi?kwám núkpa tùm pá·šiñ when I had been eating a man arrived (?an- 1st. per. sub. 3d. per. obj. t. p. pref. + *wi?k eat (i. theme) + -wam + núkpa he arrives + tùm pá·šiñ a man)

?i?ña?mpá?m i?ñí·špa tùm pá·šiñ as you were looking you saw a man (?iñ- 2d. per. sub. 3d. per. obj. t. p. pref. + *?a?m look [t. theme] + -pam + ?i?ní·špa you saw + tùm pá·šiñ)

?ičlho?ywAnom túh hèsak anúk it was already raining when I arrived (?i- 3d. per. sub. and obj. t. p. pref. + *čihó?y keep hitting [i. theme] + -wam + -om enc. "already" + tuh rain + hésak when + ?anúk I arrived)

?ičiho'ypám túh mu 'annúk it was raining when I arrived ('an- 1st per. sub. 3d. per obj. t. p. pref. + *puk)

?anéukumwámom ?a?ní·špa tùm čí·mpa just as I got up I saw a dog (?an- + *éukúm arise [i. theme] + -wam + -om + ?a?ní·špa I saw + tùm čí·mpa a dog) 19.5. Linear-linear contemporaneous clauses. The action of both subordinate and main verbs is durative rather than punctual. The conjunction ma (mo, mu, mi) usually is used to introduce the main clause, and the pronominal prefix of the main verb must be transitive.

ďa wa?á· mo ?ikód iñáka he could not put on his skin (ďa wa?á. he could not + mo + ?i- 3d. per. sub. and obj. t. p. pref. + *kot put on [t. theme] + ?iñáka his skin)

šíkpa mi [?]iñ.ík he laughed as he went (šíkpa he laughed + mi + [?]i- + *n.k go [i. theme])

?aηwéhpa ?iñʎk shouting he went (?aŋwéhpa he shouts + ?iñʎk he went)

ma ?anwit káya ?a?ní·š ukkú?wih as I walked in the street I saw drinkers (ma + ?an- 1st. per. sub. 3d. per. obj. t. p. pref. + *wit walk [i. theme] + # compl. suf. + káya street [Sp. "calle"] + ?a?ní·š I saw + ?ukkú?wih drinkers)

hè⁹m iwà⁹a $_{\eta}$ há⁹m ikék he likes to fly (he⁹m he + ⁹iwà⁹a $_{\eta}$ hám he likes it + i- + *kek fly [i. theme])

pè?m hón kèkpa ?iš.í? that bird flies when it goes along (pè?m hón that bird + kékpa it flies + ?i- + *sʌ? go along [i. theme])

hè? da wa?à· ?imóη ¢ú?mak he couldn't sleep last night (he? he + da wa?á· was not able + ?i + *moη sleep [i. theme] + ¢ú?mak last night)

tiliga da walar imíñ why can't he come? (tíliga why + dà walar he is not able + li- + *miñ come [i. theme])

ma ?ansé?t sámñi tóypa ?íďak aηkó·bak as I fried bananas my head was aching (ma + ?an- + *se?t fry [t. theme] + sámñi banana + tóypa ?íďak it was aching + ?aηkó·bak my head)

GERUNDIAL CLAUSES

19.6. Gerundial clauses are resultative and conditioned. The main and subordinate verbs have the same subject. The chief characteristic of gerundial constructions is that the pronominal prefixes of both main and subordinate verbs undergo certain changes such as loss of pronominal prefixes or shifts from the intransitive to the transitive forms, and that the gerundial verb has one of the gerundial suffixes (8.2).

19.7. Resultative gerundials. The action of the resultative gerundial is the result or purpose of the main verb. The construction differs for transitive and intransitive gerundial verbs. The main verb used in these constructions is always intransitive, and usually expresses such a concept as going, coming, beginning, or finishing. The first person imperative construction is of the same type, although the main verb is defective in that it is only found in this one type of construction. This imperative

verb is te. In this imperative construction the first person inclusive pronominal prefixes (7.2, 7.5, 8.4) are always attached before the stem of the gerundial verb.

19.8. Intransitive resultative gerundials. The main verb takes the regular aspect or imperative suffixes, and no pronominal prefix. The gerundial verb retains the regular intransitive pronominal prefixes and is given the gerundial suffix -i. The plural verbal suffixes may also be attached, in final position, to the gerundial verb.

nàkpa mi[?](ti you go (somewhere) to live (*nak go +
-pa inc. suf. + mi- 2d. per. i. p. pref. + *[?]it live +
-i)
mòh èčiyáh they began dancing (*moh begin + *[?]e¢
dance + -i + -yah pl. suf.)
mìň tawí[?]ki we (incl.) came to eat (*miň come + ta1st. per. lim. incl. pl. i. p. pref. + *wi[?]k eat + -i)
tè dawí[?]ki let's eat
tè damóni let's sleep (mon sleep)

mòh anwéhi he began to shout (*?anwéh shout)

nàga mikô-ñi go and sit down! (nak go + -a imp. suf. + mi- 2d. per. i. p. pref. + *ko-ñ sit down + -i)

nàkpa [?]ayó[?]yiťam we (excl.) are going to jump (nákpa + [?]a- 1st. per. i. p. pref. + *yo[?]y jump + -i + -tam pl. suf.)

19.9. Transitive resultative gerundials. The main verb stem takes the regular aspect or imperative suffixes, but no pronominal prefixes. The gerundial verb stem takes the transitive pronominal prefixes, the zero gerundial suffix, and the plural suffixes, except that in the third person the pronominal prefix ?i- may be omitted and the gerundial suffix -i attached to the subordinate verb theme. The plural suffixes are always in final position. Passive gerundials may have either the completive or the incompletive suffixes, and are given, as are the active verb stems, the regular transitive pronominal prefixes. Transitive gerundials with imperative inflection omit the pronominal prefixes for both main verb and gerundial.

Active gerundials:

mòh ihá's he began to think (*moh begin + # compl. suf. + ?i- 3d. per. sub. and obj. t. p. pref. + *ha's think + # ger. suf.)
mòh iwát or mòh wáti he began to do it (*wat do)

yàh itopyáh they finished taking it out (*yah finish + # compl. suf. + ?i- + * top take out + # ger. suf. +

-yah pl. suf.)

min manakwák *I came to ask you* (*min come + # compl. suf. + man- 1st. per. sub. 2d. per. obj. t. p. pref. + *?akwák *ask* + # ger. suf.)

mìn ta 9 ná 9 m we came to look (*min + # compl. suf. + tan- 1st. per. sub. 3d. per. obj. lim. incl. pl. t. p. pref. + * 9 a 9 m look + # ger. suf.)

tè da?ná?m let's look

tè dammé? é let's search (*me? é search)

Passive gerundials:

mòh imò gay tá p he began to be teased (*moh + # compl. suf. + ?i- + *mo gá y tease + -ta p inc. pas.)

moh imogayta he began to be teased. This form has the completive passive suffix -ta. There is no good direct English translation to express the difference between the two concepts.

minpa 'i'a'mtá' he was come to see. (In English this is best translated as "he was visited" or "they came to see him".) (*min come + -pa inc. suf. + 'i- + 'a'mtá' he was seen)

Imperative gerundials:

nága me⁹¢tá⁹ma go and search for it! (nága go! + *me⁹¢ search + -ta⁹m pl. suf. + -a imp. suf.) móha wáta begin doing it! (móha begin! +wáta do!) kí⁹ma nága má¢a climb up to go and seize it! (kí⁹ma climb! + nága go! + má¢a seize!)

19.10. Conditioned gerundials. The action of the gerundial verb is conditioned by the action of the main verb, which expresses ideas such as "being able," "keeping on," "liking," "knowing," and so forth. The main verb stem takes the regular aspect suffixes but not the pronominal prefixes. The gerundial verb stem takes the transitive pronominal prefixes, whether it is regularly transitive or intransitive, and the zero gerundial suffix. This construction has not been observed in the passive voice.

ing") (mič you + sA?ba + ?iñ- 2nd. per. sub. ; per. obj. t. p. pref. + *hips burn # ger. suf.)

huệ âr p taηwi? k how are we going to cat? (*huệ âr how [verb] + -p inc. suf. + tan- 1st. per. sub. 3d. per. obj. lim. incl. pl. t. p. pref. + *wi?k + # ger. suf.) da wa? àr p ta²ni we cannot live (da neg. + *wa?âr be able + -p inc. suf. + tan- + *? i tive + # ger. suf.) da wa?àr p amp k I can not marry her (*pak marry)

19.11. The conditioned gerundial following a stative verb. Only one case has been observed of a gerundial following a stative verb. The main (stative) verb keeps the regular intransitive pronominal prefixes. The gerundial verb is unprefixed, and uses the gerundial suffix -i.

mič miká?npu makkí?mi you are an egg taken out with a net (miká?npu you are an egg st. verb, makkí?mi taken out with a net)

20. CLAUSE COMBINATIONS

20.1. As has been seen, the complex sentence usually is rather short, consisting of a main clause and a modifying or a subordinate clause. However, a modifying or subordinate clause may in turn be modified by another modifying or subordinate clause, and this in turn modified by another in an indefinite sequence.

20.2. Main clause + gerundial clause + relative clause:

hè?m hayěí:ši nAkpa ?imé?¢ hù?ť se?ttá:p the boy went to search where it was being fried (hè?m hayčí:ši the boy + nAkpa ?imé?¢ went to search + hu?ť where + se?ttá:p it was being fried)

20.3. Main clause + relative clause (modif. noun) + gerundial clause:

?ikupadá?ypa tùm ták hù?t sá?ba ?iwì?kkuywát tùm čó·mo he found a house where an old woman was (kept on) preparing dinner (?ikupadá?ypa he found + tùm ták a house + hu?t + sá?ba kept on, continued + ?iwì?kkuywát making dinner + tùm čó·mo an old woman)

20.4. Relative clause + gerundial clause + main clause:

hèsak miñpa 'i'à'myahtá. 'iŋkèhayyáhpa ¢ùg itú¢ when she came to look at them they showed her a rat's tail (hésak when + miñpa she came + 'i'à'myahtá. to look at them (pas. const.) + 'iŋkèhayyáhpa they showed her + ¢ùg itú¢ rat's tail)

20.5. Main imperative clause + gerundial imperative clause + relative clause + connective clause + connective clause:

nága me[?]¢tá[?]ma hè[?]m pá·šiñ hù[?]d íť sì[?]iga nùma hè[?]am [?]ikupuhné[?] [?]anyo·mmának go and search for the man where he is if it is certain that he (is the one who) has liberated my daughter (nága go + me[?]¢tá[?]ma search [imp. pl.] + hè[?]m pá·šiñ the man + hu[?]ť where + [?]iť he is + sí[?]iga if + núma certain [st. verb] + hé[?]am he is the one + [?]ikupuhné[?] he has liberated + [?]anyo·mmának my daughter)

20.6. Main clause + connective clause + connective clause + relative clause (modif. noun) + gerundial clause + connective clause:

hè?m iyó·mo ¢å?m iťóypa porke hè? tù?m išwérte ?ipát hè?m lagúna hù?ť naktáp imࢠtá?pa ?i hèmu?m iku?i·šá?y hè?m yó·mo he loved his wife very much because she was his good luck (which) he found in the lake where he went meaning to catch fish and there he met the woman (hè?m iyó·mo the his wife + ¢am much + ?iťóypa he loved her + porke because (Sp. "porque"] + hè? tù?m išwérte she was his good luck [Sp. "suerte"] [st. verb] + ?ipát he found + hè?m lagúna the lake [Sp.] + hu?ť where + naktáp he went

meaning + ?imࢠtκ²pΛ to catch fish + ?i hémum and there [?i Sp. "y"] + ?iku²i·šκ²y he met + hè²m yó·mo the woman)

21. THE SYNTACTIC ELEMENTS OF THE CLAUSE

21.1. The predicative word. The predicative word may be an active, passive, or stative verb form. Stative verbs may be verbalized nouns, pronouns, or attributives (7.4).

γiñλ?má?ypa he says to him (*nλ?má?y say to) nλ?mayťá:p iyó:mo it is said to his wife hè? kó:ya it is a rabbit (kó:ya rabbit) ?a?λč it is I (?λč I) mim.λhpak you are big (mʌh big)

21.2. The independent subject. Subject always is expressed by the subjective pronominal element of the verb, and in addition it may also be expressed appositionally by a noun, a series of nouns (which may or may not be joined by the conjunction 'i and), a pronoun, an attributive with the enclitic -pak, or a cardinal or pronominal enumerative.

pè?m čí·mpa wókpa that dog barks (čí·mpa dog)

me?¢tá:wom tùm yóya ?i tùm šíš i tùm čó:mo a pig and a bull and an old woman were searched for (yóya pig, šiš bull, čó:mo old woman)

?λc amíñ hù?d ít iñhátu?η iñá:pa I came from where your father and mother live (?iñhátuη your father, ?iñá:pa your mother)

pè?m sé tpa that one returns (pe?m that one)

?ì ?iwátpa who is doing it (?i who)

hèsagam dàpak in¢ó'n namyáhpa then those who didn't answer say (da neg. at. + -pak part. enc. > dápak those who didn't)

hè?m tukuté?n inika?mᢠthe three shook hands with him (he?m def. art., tukutén three)

?aktάηpa ?ikukwástak the two of them fell (?ikukwástak the two of them)

21.3. The independent object. Object is always expressed by the objective pronominal element of the verb, but, like the subject, it may also be expressed appositionally by a noun, a series of nouns (which may or may not be joined by the conjunction ?i and), a pronoun, an attributive with the enclitic -pak, or a cardinal or pronominal enumerative.

?i?f:špa ?i?6·mi he saw his master (?i?6·mi his master) ?ančí? tùm máhkuy ?i tùm pók I gave him a pitcher and a calabash (máhkuy pitcher, pok calabash)

?a?ní·š pé?m I saw that one (pe?m that one)

mič impátne? wábak you have found that which is good (war good + -pak part. enc. > wábak that which is good)

?i?f'š tukutén he saw three (tukutén three) mič antóppa ²aηkutúkutam you will take all three of us out (²aηkutúkutam all three of us)

21.4. The predicate modifier. The predicate modifier may be a word, a modifying clause, a subordinate clause, or a series of modifying and/or subordinate clauses. The modifying word may be a noun inflected with one of the case suffixes, a noun with a locative modifier or used with a locative significance, a temporalized noun, an adverbial enumerative, or an attributive of one of the following types: negative, intensifier, locator, tensor, demonstrative adverb, relative, or interrogative adverb, participial adverb, or quantitative.

Pôkma póypa hamñóm then he ran into the woods (hamñ-comb. form of hámñi woods + -hom loc. suf.) kí?mpa takkô·bakyúkma he climbs on the roof (takkó·bak roof + yúkma on)

núk kůkma lámar he arrived in the middle of the ocean (kůkma middle)

Pišé tipak pipátpa after his return he met him (Pišé tipak after his return temporalized noun modif. Pipátpa he met him)

hè? pá·šiñ wàskay sé·t the man turned twice (wáskay twice)

?ôdoy póyn don't run away! (?ódoy modal neg.) gàm mišíkpa you will laugh much (¢am much)

pè?m hón kékpa yúkma that bird is flying above (yúkma above)

?apá·ši?ñ íďak he was a man (?íďak tensor)

yh?m a?íť I am here (yh?m here)

hù?d st where is it? (hu?t where)

hú¢pay miháya how valiant you are (hú¢pay how much) šikímu nák laughing he went (šikímu laughing)

?imató¬pa tíñpa he heard it make noise (tíñpa it makes noise pred. verb of modif. perceptive clause)

hè?m hayčá·ši nàkpa 'imé'é hù't se'ttá·p the boy went to search for where it was being fried ('ime'é to search for pred. verb of subord. ger. clause, hù't se'ttá·p where it was being fried rel. modif. clause)

21.5. The subject or object modifier. The subject or object modifier may be a word or a relative or agentive clause. Modifying words may be of the following types: possessor noun or pronoun modifying a possessed noun, descriptive, locator, tensor (rarely), quantitative, demonstrative adjective, cardinal enumerative.

?iŋkèhayyáhpa ¢ùg iťú?¢ they showed her the rat's tail (?iťú?¢ his tail obj. noun modif. by ¢uk rat)

?a?níšpa mìč iñčí mpa I see your dog (mič you modif. iñčí mpa your dog)

?icàgayné?om tùm pák ¢ú:papak she had left a sharp bone (¢ú:pa sharp + -pak part. enc., modif. pak bone) kí?mpa vúkmapak kúy he climbs the high tree (yúkma above locator + -pak part. enc. > yúkmapak high modif. kuy tree)

wìñak pá·ši?ñ íť yá?m men of long ago lived here (wiñak long ago tensor modif. pá·šiñ man, men)

núk hà?yan ¢á·šťam many children arrived (há?yan many quant. modif. ¢´A´*šťam children)

yh?p káwa pôypa this horse is running (yh?p this dem. adj. modif. káwa horse)

?ana?ít wasté?n ammának I have two children (wastén two modif. ?ammanak my children)

?ikupada?ypa tùm tak hù?ť sù?ba ?iwì?kkuywát tùm čó mo he found a house where an old woman was making her dinner (hu? t where intro. rel. clause modif. tak house)

hèmu?m ini?ít hè?m pák ikka?wá?ap there he had the bone which killed him (?ikka?w\lambda? Ap which killed him ag. clause modif. pak bone)

22. USE OF SYNTACTIC ELEMENTS

VERBS

22.1. The verb. The verb is used as the predicative word of a main, modifying or subordinate clause (see examples sections 17, 18, 19). When a pronoun is separated by modifying elements from the verb of which it is the subject, or follows the verb of which it is the subject or object, it often becomes verbalized. Pronoun verbalization also is often used for added emphasis.

ta? Ač da ?anh Aypa we don't make noise (ta? Ač st. verb " ((M. ())

miě a?ni špákpa ?a?áčťam you know us (?a?áčťam st. verb "us")

nakpa ?a?ná?m a?áě I will go to see (?a?áě st. verb "I")

PRONOUNS

22.2. The personal and demonstrative pronouns. Personal and demonstrative pronouns may be used as independent subjects and objects of the predicative verb, as possessor modifiers of a possessed noun, or in apposition to another independent pronoun used as the subject of a verb.

?\text{\chi} ?anm\text{atpa I will speak (?\text{\chi} I sub.)}

hè? čí? A give it to him! (he? him obj.)

tovpa ?he anko bak my head hurts (?he I modif. ?ankó bak my head)

míčam hè?am miprimerpá·šiñ just you are the first man (lit. "just you, just he, you are the first man") (míčam just you pron. in apposition to hé?am just he. míčam governs st. verb. miprimerpá šiñ you are the first man)

?kč hè?m ankò sputpá?ap I am he who sprouts at the knees (?Ač I in apposition to he?m he)

22.3. The relative and interrogative pronouns. The relative and interrogative pronouns are used to introduce relative or interrogative clauses.

tì ?iwátpa hè?m nú?pu what is the vulture doing? (ti

Panmáta Pi Piññávi tell what your name is! (lit. "tell who is your name!") (?i who)

NOUNS

22.4. The noun. A noun in absolute form, or a noun with possessive pronominal prefixes and/or plural suffixes may be used either as the subject or object of a predicative verb. A noun inflected with one of the case suffixes, or a noun used in a locative or temporal sense, functions as a modifier of the predicative verb. A noun also may be used as a form of address in direct discourse.

?i?í špa ¢òkpa húkta měnsayúkma he saw a fire shine on a mesa (húkta fire sub. of verb cókpa it shines, mènsayúkma on a mesa < ménsa mesa + yúkma on locator)

?ikótpa ?iyó?ti she puts on her shirt (?iyó?ti her shirt

obj. of ?ikótpa she puts it on)

wiñak hè?am ¢á·šťa?m ininák ičunhá·tun long ago the children went with their stepfather (& A'stam children sub. noun, ?iěunhá tun their stepfather obj. noun)

da yo'sa'p kuyamhom he doesn't work in the ashes

(kúyam ashes + -hom loc. suf.)

nakpa mi?iti wathamni you will go to live in the forest (wathámñi forest with loc. significance modif. verb) ?ipacnskpa kù?vankó·bak he threw it to the top of the tree (kù?yaηkô·bak top of the tree modif. verb)

nukyáhpa našyúkma they came down on the ground (našvúkma on the ground comp. of noun and locator)

hè?m čó mo ?ikukehháma náko?m immadaytá the old woman then went to notify him at sunrise (lit. "the old woman at her sunrise then went to notify him") (?ikukehháma her sunrise modif. verb nákom she

tì ?inwatpa ?a·či what are you doing, uncle? (?a·či uncle)

ATTRIBUTIVES

22.5. The descriptive attributives, Descriptive attributives may function as noun or verb modifiers. In both syntactic functions they are usually found with the enclitic -pak.

?a?ní·š pěkapak ták (also ?a?ní·š pěka ták) I saw an old house (peka old modif. tak house)

?ókma máyma?yam nákum kó ya then happily the rabbit went (máymay happily modif. verb nak he went)

22.6. The locator. The locator may modify a noun or a verb.

móηpa kùkma táη he sleeps in the center of the path (kúkma in the center modif. tun path)

kékpa yúkma it flies above (yúkma above modif. kékpa it flies)

22.7. The tensor. A tensor functions chiefly as a verb modifier. The only tensor which has been found as a noun modifier is wiñak long ago, e. g., wiñak pá šiñ men of long ago.

sh²Ap nhkpa ²ana₇h6²k éybak now I am going to wait again (sh²Ap now)

?òkma hè?m pá·šiñ pútpa then the man came out (?ókma then)

The imperfective tensor 'fdak gives special time reference to the verb which it modifies. Thus the action may be imperfect, habitual, or conditional in accordance with the aspect suffix of the modified verb.

When modifying an incompletive verb form the action may be either imperfect incompletive, or conditional.

?ansúmpa ?idňk tù?m anyómo I would like a (my)
wife (*sum want, like)

hè?m nákpa ?íďak he would go (*nak go)

hù?d ídak mišá?ba where were you going along? (*sa? go along)

When modifying the completive verb or stative verb it indicates past habitual or continued action.

?\`\cente a?'\text{id idnk I was living, used to live (*?'\text{it live})

?ìdAk kô·ñ he was sitting (*ko·ñ sit)

?idnk iwa?n anyomo my wife used to sing (*wa'n sing)

When modifying verbs with the perfective suffix it indicates conditional or continuative perfective action.

hù?d ídak miñakné? where have you been going? (*nak go + -ne? perf. suf.)

?\`Ac an\'an\'ear i d'ak m\'ear i ana\'i\'i\'ear i would have gone if I had had time

?\`\delta\ as\u00e4nn\u00e2? id\u00e1\u00e4k \ I would have liked it (*sum like, want)

?a?iťñé?o?m íďak Chinaméca mè?iga ?anák maták I would have already been in Chinameca if I had gone yesterday (*?iť be)

22.8. The intensifier. The intensifier functions as a verb modifier.

¢àm wíñagam múndo the world is now very old (¢am very modif. wíñagam it is now old st. verb)

?àga ?aŋyáknè? múndo the world has become very sad (?ága very modif. ?aŋyakné? it has become sad)

22.9. The demonstrative adjective. The demonstrative adjective functions as a noun or cardinal enumerative modifier.

tammá¢pa pè°m pá·šiū we will catch that man (pe°m that modif. pá·šiū man)

?ananákpa yλ?p tukutén I will take these three (yλ?p these modif. tukutén three) 22.10. The article. The article functions in the same way as the demonstrative adjective. Articles are often omitted entirely; they are generally used only when it is desirable to designate a thing more specifically.

^γimatóηpa ^γa^γηά^γypa ták he hears the house open (tak [the] house)

'imatóηpa 'a'ηά'ypa hè' ták he hears the (particular) house open (hè' ták the house)

?imatóηpa ?a?ηá?ypa tùm ták he hears a house open (tùm ták a house)

22.11. The demonstrative adverb. The demonstrative adverb functions as a verb modifier; with the addition of the particularizing suffix -pak it may also be used as a noun modifier.

tì °iηwattá°mpa yá°m what are you doing here? (ya°m here modif. *wat do)

°a°ní'š yh°mpak pá'šiñ I saw men from here (yh°m + enc. -pak from here modif. pá'šiñ man)

22.12. The participial adverb is a verb modifier.

šikímu nák laughing he went (šikímu laughing modif.
*nak go)

?kĕ poyímu ?ask?ba I go along running (poyímu running modif. *sk? go along)

22.13. The interrogative or relative adjective. The interrogative adjective functions as a noun modifier. The relative adjective functions as a noun modifier introducing a relative clause.

hùp ¢ś. ši ?iwàhné? which child has done it? (hup which modif. ¢ś. ši child)

?ì dúη hùp ¢ʎ'ši 'iwahné' who knows which child did it (hup which intro. rel. clause ¢ʎ'ši 'iwahné' [the] child did it)

22.14. The interrogative or relative adverb. The interrogative adverb functions as a verb modifier. The relative adverb functions as a verb modifier introducing a relative clause.

nìkpa 'i'á'm hù't kùmnetá: they went to look where he had been buried (hu't where modif, kùmnetá: he had been buried)

hù?d ít ?int.ík where is your house (hu?t modif. ?it it is)

22.15. The quantitative attributive. The quantitative attributive may serve either as a noun or verb modifier.

huệa? n anyôhpa how much will you pay me? (huệa nhow much modif. Panyôhpa you pay me)

γίτ hà?yaη yó mtam there are many women (há?yaη many modif. yó mtam women)

núkpa hè⁹m hèsaη háma mòhum háki lámar after several days the ocean began to recede (hésaη several modif. háma day) 22.16. The negative attributive. The negative attributive da no, not is used as a verb modifier in all but modal clauses.

ďa [?]aníkpa *I am not going* ([?]aníkpa *I am going*) ďa [?]m aníkpa *I am not going any more* (ďa + -m lim.

ďa ?aηwλ?aηhá?m iga miñ.kk I don't like it that you went (*?aηwλ?aηhám like)

22.17. The modal negative ?ódoy is used as a verb modifier in imperative phrases and subjunctive subordinate clauses. It has not been observed with verbs inflected with the subjunctive suffix, but in itself gives a subjunctive meaning to the phrase, thereby eliminating the necessity for the subjunctive suffix.

?òdoy nága don't go! (nága go!)

?òdom nága don't go any more! (?ódoy + -m lim. enc.) da nàkpa ?iyá?g iga ?òdo?y ikká? he didn't go himself that they might not kill him (?ódoy modif. ?ikká? he [they] killed him > they might not kill him)

Émayťá: hè?m ičí:mpa ?iga ?òdoy nàg ikupúh his dogs were tied that they might not go to free him (?òdoy modif. *nak go > they might not go)

- 22.18. The conjunction. A conjunction may function only to introduce a modifying clause (for examples see 18.6), except for the conjunction ?i (Sp. "y") which may also be used to join a series of noun subjects or noun objects (for examples see 21.2-3).
- 22.19. The interjection. Interjections may be used as phrase words in answer to a question, or as exclamatory elements in a phrase.

miñákpa hóyma (pause) há are you going? yes (ha yes)
'áy 'á'či kítu'm an¢ókwiñ oh, uncle, my chest is
broken ('ay exclamatory interjection)

22.20. The cardinal enumerative. A cardinal enumerative may function as subject or object of a verb, or as a noun modifier.

hè?m tukutén ďa ?ičí? iká? the three did not give their hands (hè?m tukutén the three sub. of ?ičí? they gave them)

?immé?épa wastèn karpintéro you will search for two woodpeckers (wastén two modif. karpintéro woodpecker [Sp.])

22.21. The pronominal enumerative. The pronominal enumerative may be used as subject or object of a verb, or in apposition to a nominal subject or object.

tagayťá?ma ?iñťúmpay get in, all of you! (?iñťúmpay all of you sub. of imper. verb)

?i?i·šyáh iťúmpny hè?m náwahyah all the witches saw it (?iťúmpny all of them sub. in apposition to náwahyah witches) 22.22. The adverbial enumerative. The adverbial enumerative functions as a verb modifier.

wàskay [?]iñáks he hit it twice (wáskay twice modif. [?]iñáks he hit)

22.23. Polite phrases. The only difference noted between the speech of men and women is in the form of greeting used. That for men is šu¢6?y while that for women is tušam šučin. Although there is no apparent direct translation for these forms, the nature of some of the morphemes may be pointed out. The stem *šu¢ is common to both. In the masculine form it is followed by the repetitive suffix -?6?y. In the feminine form it is preceded by tušam (probably tuš God [Sp. "dios"] plus the enclitic -am) and followed by the subjunctive suffix -?iñ. "Thank you" is expressed by yūkw Δ? Δbam duš (probably a verb stem *yuk with the agentive suffix -wΔ? Δp, the enclitic -am, and a variant of Spanish "dios").

23. WORD ORDER

23.1. Word order is not rigid in Popoluca, but there are a few definite rules which are always adhered to in the combining of syntactic elements into sentences, and other tendencies which are usually followed.

23.2. A conjunction used to introduce a clause must always precede all the other elements of the clause (see examples 18.6).

23.3. Relative and interrogative adverbs generally precede all other elements of the clause (see examples 18.7) but may occasionally be preceded by another element such as a demonstrative adverb or even the verb subject.

hèmak hùéma nák ⁹ipátpa úšpiñ there, where he went, he encountered an alligator (hémak there, húéma where)

yh?p phišiň hù?ť nákpa this man, where is he going? (hu?ť where inter. preceded by yh?p phišiň this man)

23.4. Negatives and intensifiers always directly precede the verb which they modify, with the exception of the intensifier 'éybak again which also has been noted following the modified verb with a preceding tensor.

?
 % ďa ? anákpa I do not go (ďa neg. at.)

?òdoy nága don't go! (?ódoy neg. at.)

da whok he'm yo'mo the woman is not pretty (da modif. st. verb whok is pretty)

?\`X` aga ?anho?yá?y I was very angry with them (?ága very modif. ?anho?yá?y I was angry)

sh?nb anapútn ?éybnk now take me out again! (?éybnk again modif. ?anapútn take me out!)

23.5. A pronoun as the object of an imperative verb precedes the verb.

hè?am na?má?ya tell it to him (he? him + -?am enc., obj. of ind. imp. verb)

23.6. Other words which also generally precede the predicative verb are noun subjects when there is also a noun or pronoun object, temporalized nouns, pronouns used as subjects, tensors, demonstrative adverbs, and quantitative attributives.

hè?m pá·ši?ñ iťóppa ?i?á·ñi the man takes out his tortilla (hè?m pá·šiñ the man sub., ?i?á·ñi his tortilla obj.)

?imíñipak apútpa after his coming I go out (?imíñipak temporalized noun modif. ?apútpa I go out)

?ôkma haypátpa then he speaks (?ôkma then tensor) húépay miháya how valiant are you? (lit. "how much are you valiant?") (húépay how much quant. at.)

23.7. Words that generally follow the predicative verb are nouns used as subjects (when no object is expressed), nouns used as objects, nouns inflected with one of the case suffixes, nouns used in a locative sense, pronouns used as objects, locators, and phrasal modifiers of a noun and a locator.

¢A⁹yñé⁹ iyó·mo his wife remained (⁹iyó·mo his wife noun sub.)

mlč i₇kú²tpa yh²p á·ñi *you will eat this tortilla* (?á·ñi *tortilla* noun obj.)

tanákpa hamñóm we will go into the woods (hamñóm into the woods noun inflected with case suf. -hom)

núkpa hè⁹m kuyyúkma he arrives up in the tree (kuyyúkma up in the tree noun with loc. sense)

?iñčí?ba pé?m you will give it to that one (pe?m that one pron. obj.)

hèmaga⁹m íť yúkma there it was (up) above (yúkma above locator)

?ičák màhma túη he left it in the middle of the path (màhma túη in the middle of the path loc. phrasal modifier)

23.8. The tensor ?ídʌk must directly precede or directly follow the verb which it modifies.

?a?íd ídak I was living, or ?ìdak a?ít I was living

23.9. A possessor noun or pronoun usually directly precedes the possessed noun which it modifies, though it may directly follow it if the possessed noun is the subject and the possessor the object of the verb (an article or demonstrative adjective may intervene in either case).

ďa [?]iηκλypa [?]λč aηwáη you will not bear my horns ([?]Λč I possessor pron. modif. [?]aηwáη my horns)

?i?ómi hè?m asiyénda ?ikupo?yá?y the owner of the hacienda left it for him (?i?ómi its owner possessed noun sub. of verb, hè?m asiyénda the hacienda possessor noun direct obj. of verb with "for him" expressed by indir. suf. -?a?y)

23.10. Articles, demonstrative adjectives, quantitative attributives, and cardinal enumeratives must directly precede the noun or enumerative which they modify. If either an enumerative, a quantitative, or the demonstrative adjective túngak/túngam plus an article modify the same noun, the article precedes the enumerative, quantitative, or demonstrative.

só[?]psum hè[?]m ibúrro his burro then tired (he[?]m the art. + enc. -m modif. ibúrro his burro)

hè?m tukutén inika?mᢠthe three shook hands with him (he?m modif. tukutén three)

yh?p y6·mo hù?t míñ this woman, from where did she come? (yh?p this dem. adj. modif. y6·mo woman)

nák wastèn négro two negroes went (wastén two cardinal enumerative modif. négro negroes)

míňpa hè?m wasté?n ičí·mpa his two dogs come out (lit. "they come the two his dogs") (he?m the, wastén two, 'ičí·mpa his dogs)

hèmu'm akéaktá hè'm tùngak éó ka there he was left (unharmed) by the other thunderbolt (he'm the def. art., túngak other dem. adj., éó ka thunderbolt)

núkpa hè'n hèsaη háma after several days (lit. "the several days arrive") (he'm the, hésaη several quant. modif. háma day)

23.11. Since the main verb and the gerundial verb in a gerundial clause construction have the same subject and, in the case of transitives, the same object, the two verbs are treated as one with regard to other syntactic elements in the clauses. The other syntactic elements precede and follow the two verbs with nothing interposed between them.

sh?ba?ičín hè?m yó·mo the woman was (kept on) bathing (sh?ba?ičín she was bathing main verb + ger. verb construction, hè?m yó·mo the woman sub. of both verbs)

wiñak hè'm pá'šiň nàg ikmè'éyahtá takčí'ňu a long time ago the men were sent to search for bee hives (nàg ikmè'éyahtá lit. "they went to be caused to search for," main verb + ger. verb, hè'm pá'šiň the men sub., takčí'ňu beehive obj.)

23.12. Descriptive attributives modifying a noun may either directly precede or directly follow the noun.

čihó?ypa phmbak túh it rains hard, or čihó?ypa túh pámbak it rains hard 23.13. A locator modifying a noun will precede the noun if it is not compounded with it (10.20).

nàkpa ⁹ik¢á⁹y kùkma lámar he goes to catch up with her in the middle of the ocean (kúkma in the middle locator modif. lámar ocean [Sp.])

23.14. If both an independent subject and ob-

ject follow the verb, the former usually will precede the latter.

?imatóηpa nanλgayťá:wo?m iwadáya hè?m ¢ó:ka she hears that her husband was then carried off by the thunderbolt (?iwadáya her husband sub. of nanλgayťá:wom was then carried off, hè?m ¢ó:ka the thunderbolt indirect obj.)

FOREIGN INFLUENCE

Popoluca has been recognizably influenced both by Spanish and Aztec. We are unable to determine the extent of the influence of the latter, since we know very little about the Aztec language. A number of common Aztec nouns have been noted, however, and the number is undoubtedly much greater. Many of these, though by no means all, are of a botanical nature, e. g., túlin tule, húñikuy hule (hule Aztec "rubber" + kuy Popoluca "tree"), kákwa cacao, nánčin nanche (a kind of fruit), náwat nagual ("witch"). (The modern Hispanicized rather than the classical Nahautl forms of these nouns are given.)

Spanish borrowing is on two levels: words fully adopted into Popoluca with appropriate sound and stress shifts to conform to Popoluca phonology, and which would not be recognized as foreign in origin if the derivation were not known; words which are sprinkled at random into everyday speech, but which would be suspected of foreign origin because of non-Popoluca phonology, even if the derivation were unknown.

On the first level of borrowing are included many words which have no Popoluca equivalent, e. g., káwa caballo, šápun jabón, šíwan Juan. Some of the sound shifts which have occurred presumably reflect old speech sounds of the Spanish conquerors and their followers, e. g., j > š in the above examples.

Spanish o almost always is given the value of u. Probably this is because Popoluca o is more open and less rounded than Spanish o, so that the latter would seem to the native ear more closely to resemble the Popoluca u. Thus, trúhah troje ("storehouse"), lúpuhti lobo ("wolf"), kusínah cosina ("kitchen"), kun con ("with").

The sound f is unknown in Popoluca; in Spanish loan words p is substituted, e. g., kapél *cafe* ("coffee").

Though rarely found in Popoluca words, l and r are always retained in borrowed words, e. g.,

lámar la mar ("ocean"), and trúhah, mentioned above.

Borrowed Spanish words which end in a vowel often are given a final h, in contrast to the inorganic glottal often found at the end of Popoluca words which terminate in a short vowel, e. g., pá·šah faja ("belt"), mačítih machete ("brush knife"). A variant of this is found in loan words to which a suffix -ti is added after the h, e. g., lúpuhti lobo ("wolf"), kúkuhti coco ("coconut").

Numerals above 6 (except moni four hundred) are Spanish; no sound or stress shifts occur.

Only a very few cases of Spanish expressions translated into Popoluca have been noted, e. g., nh?í·škuy ojo de agua ("spring") nh? water + ?í·škuy eye. Borrowed Spanish nouns are freely inflected, e. g., ?iswérte su suerte ("his luck") < ?i- pos. p. pref. + suerte, phylahóm en la paila ("in the kettle") < paila + -hom loc. suf.

Spanish verbs are borrowed only rarely. Those most commonly used are ser and tener, the former in the present and imperfect, e. g., 'éra hè'an ká'npu it was just an egg, and the latter always in the third person form of tiene que he has to, regardless of person, e. g., 'téne kè 'ampákpa I must marry him.

Compound verbs sometimes are constructed from a Spanish attributive plus a Popoluca verb stem, e. g., *kùšuhwát make lame < kúšuh cojo ('lame'') + *wat make. Enclitics may be freely attached to borrowed words, e. g., 'así'am just thus < así ("thus") + 'am lim. enc.

Some Spanish words, chiefly prepositions and conjunctions, have been adopted so freely that they appear to be supplanting their Popoluca equivalents. In some cases we encountered no Popoluca equivalent at all, e. g., 'i y ("and"). Other Spanish phrase connectives are often used, sometimes alone and sometimes combined with the corresponding Popoluca form, e. g., porké porque ("because"), poréso por eso ("therefore,"

"for this reason"), porketiiqia < porque+tiqiga ("because"), sí'iga $\langle si+''$ iga that (expression translated by "if"; in Popoluca "if" is mé'iga). Spanish prepositions which are replacing Popoluca forms are para and con, used with the appropriate thematic affixes of the verb which in Popoluca express these concepts, e. g., para mimíč for you

(mimíč 2d. per. pron. mič prefixed as stative verb), ku?n iyó·mo with his wife (?iyó·mo his wife). The Spanish agentive suffix -ero, in the form -tero, is often attached to Popoluca verb or noun stems to form an agentive noun, e. g., ?e¢téro dancer (*e¢ dance, yò ša téro worker (*yo šá work), taktéro house builder (tak house).

SPECIMEN TEXT AND ANALYSIS

S	FORY OF A WITCH	Į.	[?] aŋkòdayá [?] ypa (46) ñíwi (39) [?] iganam (47)
wìñak (1) Once upon a time	hè?m (2)	pá·šiñ (3)	"I will insert in it for him chile." while nakné? (48) hú?ma (9)
puhyàhpa (4) went out	?iga (5)	náwat (6) witches.	he has gone far away. hèsak (49) sét (50) kukèhaká?m (51) When he returned n the morning
nakyàhpa (7) They went	hó yi (8) hú m A taking a walk far away	' '	?i (10) mòh (36) ikká?m (52) ikó·so (30) and began to put on his knee,
hè ⁹ m (2)	iwatyó mo (11) his wife	ďa (12)	dam (53) nama¢tá·p (54) ?i (10) ?òkma (28)
?ih6?doη (13) she knew	tî (14) what	'imé?¢pa (15) he was seeking	?iña?má?ypa (17) ?iwaťyó·mo (11) yú·sa (55) he said to her his wife "Wake up.
?iwʌdaya (16) her husband.	?iñ\?má?ypa (17) She said to him	mìč (18) "You,	?Δč(56) ?ì (57) dùη (58) ťì (14)
hù?ť (19)	misá?ba (20) do you go?''	ďa (12)	?annà ska ?né ? (59) ?i (10) ďa (12) háypa (60)
^γ iηmátpa (21) he spoke to her	hè?m (2)	náwat (6) witch.	has happened to me." And not she speaks ?iwAtyó·mo (11) ?i (10) ?òkmA (28) mòh (36)
hè?ti?m (22) She herself	i?í·špa (23) ?iw	Atyó·mo (11) his wife.	his wife. And then he began a η wéhi (61) n Λ mpa (31) s λ ? Λ p (62) ? λ č (56)
?ikusú¢pa (24) She spied on him.	¢ù?a·né?om (25) She had already stayed up at night		to shout. He said, "Now I, hu?¢à*p (63) anakká?m (64) ampúy (65) how will I do to put on my leg?"
nóče (27) ?i	(10) ?òkm^ (28)	?i?í·špa (23) she saw it	porkè (66) hè? (67) puhyáhpa (4) Because they go out
?ihákpa (29) he cut it off,	?ikó·so (30) his knee.	%i (10)	¢u ^γ kΑ ^γ m (68) γaηhλγpa (69) γiwihyáh (70) at night. They make noise walking.
nímpa (31) she said	iyó·mo (32) shis wife,	A?Aba?m (33) "Right now	imatoηyáhpa (71) ?aηhλypa (69) ?iñák (72) They hear it make noise (as) he goes,
ihò?do?ηá·p (34 he will know		adá?ypa (35) ill do with it.''	hè?am (73) triηló?kΛ¢ (74) porkè (66) just the triηló?kΛ¢ because
	ma (28) môh (36) hen she began	ih A·s (37) to think.	?aηháypa (75) ?ipúy (44) ?iga (76) it makes noise his leg that
námpa (31) She said	wà (38) ñíwi (3 "It is good chile."	9) ?i (10)	?itupsné?(77)?i (10)he?yúkmA (78)he has removed.Andbecause of this
môh (36) she began	imo¢á?y (40) to grind it.	?i?í·šum (41) She then saw	?ičakhó?ypa (79) ?iwaťyó·mo (11) porkè (66) it angers her his wife because
hù?ď (42) ið	šág (43) ipúy (44) he left his leg	hè [?] m (2)	γikú?tpa (80) tantá·wa (81) námpa (31) he eats our brothers. She spoke
náwat (6) witch.	n⊿mpa (31) She said	yó·mo (45) woman	γiyó·mo (32) sλγλbaγm (33) ihòγdoγηá·p (34) his wife "Right now he will know

10		11(0111)	THE OF NO	011111 1111 1111
sì (82) ď		?aηkùšuhw I will make bin		
?òkma (28))	mòh (36) he began	a	ηwéhi (61) to shout.
námpa (31 She said) '	Piyó·mo (32 his wife,		$^{\circ}$ i η W Λ° (84) "Your goodness
?iniηnúk (8 you paid for.'		% (10)		?ókmʌ(28)
kukèha?yy				
?i (10) And	tù	ngam (87) the next	1	há·ma (88)
?ihò?do?ηá he kno				ngó?yi (89) head man.
nh?mayťá: It is said to l		pè?m ("That		pá·šiñ (3)
?iku?dá?yr he eats		tantá·wa our brothe		čókoy (93) their spirits."
?i (10)		pa (31) said		ngó?yi (89) e head man
sight now	33) t	anakká?ba we will kill bi		porkè (66) _{{because}
?ičàηwatné he has already	, ,	67	76) ?ik	tú?tpa (80) he eats
pá·šiñ (3)		%i (10)	9	okma (28)
no?kehtá: he was set afi		hè?m (2)	náwat (6) witch.
námpa (31 He said	?	aηhagó?yi (head man,	(89)	sì?iga (97) "II
núma (98) it is certain	náwa he is v	t (6) ďa vitch		nípspa (99) he will burn.''
%i (10) And	?òkma (2 then	28) no?k	ehtá: (96) vas set afire,	?i (10) and
ďa (12)	1	nòbiť (100) right away		ká? (101) be died
huktóm (1 in fire.	02)	hèmu?m (1 Just there	103)	i·šťá· (104) it was seen
?iga (76)	hàya?	yaηhΛčΛč (he is brave	105)	hè?am (73) the one who is
náwat (6) witch,	porkè beca		not (12)	hôbiť (100) right away
ká? (101) he died	hul	atóm (102) in fire.		nu?m (103) Just there
i?i·šyáh (1 they saw	06)	itumpay (${\rm h}^{\mbox{\scriptsize ?m}}_{\rm the}$ (2)
náwahyah witches		% (10 %And)	?òkm^ (28)
ku·ηyáhon they were tru		porkè (66)		htá·p (110) will be burned.

hèmum (103) kuyáh (111) hè?m (2)

Just there finished the

kwénto (112)

story.

FREE TRANSLATION

Once upon a time men went out as witches. They went traveling far away. One man's wife did not know what her husband was seeking. She said to him, "Where do you go?" The witch did not answer her. His wife saw him go, because she spied on him. After she had kept watch for 7 nights she saw that he cut off his leg at the knee. His wife said, "Right now he is going to find out what I will do with it." She then began to think. She said, "Chile is good," and she began to grind it. Then she saw where the witch had left his leg. The woman said, "I will insert chile (at the joint) for him while he is far away." When he returned in the morning and began to put his leg on at the knee it would no longer fasten on. Then he said to his wife, "Wake up! Who knows what has happened to me?" His wife would not speak. Then he began to shout. He said, "Now, how am I going to put on my leg?" Because when witches go out at night they make a noise as they walk. The people hear a noise and it is the triylo?kn¢ who is going by. Because of the removal of his leg he makes a noise when he walks. It is because he eats our brothers that his wife is angered. His wife said, "Now he will find out if I have made him one-legged." Then he began to shout. His wife said "You have paid for your pleasure." Then they awaited the morning.

The next day the head man found out about it. He was told, "That man eats the spirits of our brothers." The head man said "We must kill him immediately because by eating men he has already done much harm." The witch was then set afire. The head man said, "If he is surely a witch he will not burn." When he was set afire he did not die in the fire immediately. Thus it was seen that he was a brave witch. All the witches saw him there, and they were afraid that they too would be burned. There the story ends.

GRAMMATICAL ANALYSIS

- 1. tensor, suf. -Ak (13.4)
- 2. def. art. + -m lim. enc. (15.2)
- 3. man
- 4. *put go out (t > h 4.8) + -yah 3d. per. pl. suf. (8.4) + -pa inc. suf. (8.9)
- 5. conj. that, as, here intro. a modif. clause with st. verb (18.6)
- 6. witch
- 7. *nAk go + -yah 3d. per. pl. suf. (8.4) + -pa inc. suf. (8.9) main verb of i, res. ger. construction (19.8).
- 8. i. res. ger. (19.8) *ho y take a walk + ger. suf. -i (8.2)
- 9. locator (13.3)
- 10. Sp. "y" conj.
- 11. ?i- 3d. per. pos. p. pref. (11.1) + wnt-comb. form of whti large + yomo woman, wife; comp. noun (10.22)
- 12. neg. at. (13.9)

- ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *hó?doη know, + # compl. suf. (8.9)
- 14. rel. pron. (9.4) intro. rel. clause (18.7)
- 15. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *me?¢ seek + -pa inc. suf. (8.9)
- 16. ?i- 3d. per. pos. p. pref. (11.1) + wnt- comb. form of wnti large, great + haya male; comp. noun (10.22)
- 17. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *nAm say + -?a?y indir. suf. (6.17) + -pa inc. suf. (8.9)
- 18. 2d. per. ind. pers. pron. (9.2)
- 19. inter. at. (13.7)
- 20. mi- 2d. per. i. p. pref. (7.2) + *sa? go about + -pa inc. suf. (8.9)
- 21. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *?aηmat speak (ben. pref. ?aη- 6.5) + -pa inc. suf. (8.9)
- 22. 3d. per. ind. pers. pron. (9.2) + lim. encl. -tim (15.4)
- 23. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *?i·ś see + -pa inc. suf. (8.9)
- 24. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + ku- purp. pref. (6.4) + su¢ bound stem of *kusú¢ spy + -pa inc. suf. (8.9)
- 25. ¢u? night + -?a· verb suf. (6.11) + -ne? perf. suf. (8.3) + -om tem. enc. (15.2)
- 26. Sp. "siete"
- 27. Sp. "noche"
- 28. tensor (13.4)
- 29. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *hak cut + -pa inc. suf. (8.9)
- 30. ?i- 3d. per. pos. p. pref. (11.1) + k6·so knee
- 31. #3d. per. i. p. pref. (7.2) + *nam say + -pa inc. suf. (8.9)
- 32. %i- 3d. per. pos. p. pref. (11.1) + y6·mo woman
- 33. $s^2 Ap$ tensor (13.4) now + -?am enc. (15.2)
- 34. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *hô?do? η á* know + -p inc. suf. (8.9)
- 35. ?an- 1st. per. sub. 3d. per. obj. t. p. pref. (7.5) + nacom. pref. (6.7) + *wat do + -?a?y indir. suf. (6.17) + -pa. inc. suf. (8.9)
- 36. begin, compl. asp. (8.9) main verb of ger. clause construction
- 37. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *ha's think + # ger. suf. (8.2), i. res. ger. (19.8)
- 38. *good*, st. verb (7.4)
- 39. chile
- 40. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *mo¢ grind + -?a?y ind. suf. (6.17) + # ger. suf., t. res. ger. (19.9)
- 41. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *?i-š
 see + # compl. suf. (8.9) + -um tem. encl. (15.2)
- 42. hu?t where, rel. at. introducing rel. clause (18.7)
- 43. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *¢ak leave + # compl. suf. (8.9)
- 44. ?i- 3d. per. pos. p. pref. (11.1) + puy leg
- 45. woman
- 46. ?an- 1st. per. sub. 3d. per. obj. t. p. pref. (7.5) +
 *kot insert + -?aya?y redup. ind. suf. (6.17) +
 -pa inc. suf. (8.9)
- 47. Piga conj. that + -nam tem. encl. (15.3)
- 48. # i. p. pref. (7.2) + *nAk go + -ne? perf. suf. (8.3)
- 49. conjunction (13.10)

- 50. # i. p. pref. (7.2) + *set return + # compl. suf. (8.9)
- 51. ku- purp. pref. (6.4) + *keh appear + -a nom. suf. (10.12) + -kΛ?m loc.-dur. suf. (12.4)
- 52. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + ?ak-caus. pref. (6.6) + -ka?m bound stem of *?akka?m put on + # ger. suf., t. ger. verb (19.9)
- 53. da neg. at. + -m lim. enc. (15.2)
- 54. # i. p. pref. (7.2) + na- com. pref. (6.7) + *ma¢ seize + -ta* pas. suf. (8.6) + -p inc. suf. (8.9)
- 55. *yu·s wake up + -x imp. suf. (8.8)
- 56. 1st. per. ind. pers. pron. (9.2)
- 57. ?i inter. pron. who (9.4)
- 58. irregular verb theme used only after ?i who. In other constructions the theme is *ho?, *hó?doη, or hò?do?ηά· know.
- 59. ?an- 1st. per. sub. 3d. per. obj. t. p. pref. (7.5) +
 *na·s pass + -ka? inst. compounding theme (6.29) + -ne? perf. suf. (8.3)
- 60. #i.p. pref. (7.2) + *hay speak + -pa inc. suf. (8.9)
- 61. # i. p. pref. (7.2) + ⁹a₇- sim. pref. (6.5) + *weh *cry* + -i ger. suf. (8.2), i. res. ger. verb (19.8)
- 62. tensor (13.4)
- 63. hu?¢ rel. at. how + -?a· verb. suf. (6.11) + -p inc. suf. (8.9) main verb of cond. ger. construction (19.10)
- 64. ?an- 1st. per. sub. 3d. per. obj. t. p. pref. (7.5) + ?ak- caus. pref. (6.6) + -ka?m bound stem of *?akká?m put on, + # ger. suf. (8.2), cond. ger. verb. (19.10)
- 65. ?an-1st. per. pos. p. pref. (11.1) + puy leg
- 66. Sp. "porque"
- 67. 3d. per. ind. pers. pron. (9.2)
- 68. $eq u^{\gamma}$ night + $k \wedge m$ loc.-dur. suf. (12.4)
- 69. $^{9}a_{7}$ sim. pref. (6.5) + *hay speak + -pa inc. suf. (8.9), main verb of cond. ger. construction (19.10)
- 70. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *wit walk
 + -yah 3d. per. pl. suf. (8.4) + # ger. suf. (8.2),
 cond. ger. verb. (19.10)
- 71. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *mat6n hear + -yah 3d. per. pl. suf. (8.4) + -pa inc. suf. (8.9)
- 72. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *nAk go + # ger. suf. (8.2), cond. ger. verb. (19.10)
- 73. he? def. art. + -?am lim. encl. (15.2)
- 74. Name of a variety of witch who removes leg. Since word does not follow usual Popoluca construction foreign origin is suggested.
- 75. # i. p. prep. (7.2) + *?aηhλy make noise + -pa inc. suf. (8.9)
- 76. conj. that
- 77. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *tups remove + -ne? perf. suf. (8.3)
- 78. he? 3d. per. ind. pers. pron. (9.2) + yúkma locator
- 79. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *\$\psi_A\kappa\$ touch + *ho?y anger + -pa inc. suf. (8.9); comp. verb (6.24)
- 80. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *ku?t eat + -pa inc. suf. (8.9)
- 81. tan-1st. per. pl. pos. p. pref. (11.1) + the wasibling
- 82. Sp. "si"

- 83. ⁹an- 1st. per. sub. 3d. per. obj. t. p. pref. (7.5) + kúšuh *one-legged* (Sp. "cojo") + *wat *make* + -pa inc. suf. (8.9); comp. verb (6.34)
- 84. ?iñ- 2d. per. pos. p. pref. (11.1) + war good at. used as noun
- 85. ²iñ- 2d. per. sub. 3d. per. obj. t. p. pref. (7.5) + ²aη-ben. pref. (6.5) + *nuk arrive, + # compl. suf. (8.9)
- 86. # i. p. pref. (7.2) + kukéh- comb. form of kukéha morning + -?α?y verb. suf. (6.12) + -yah 3d. per. pl. suf. (8.4) + # compl. suf. (8.9)
- 87. túngam another dem. at. (13.6)
- 88. day
- 89. Translated in Spanish as "la autoridad," "the authority," perhaps derived thus: ⁹a₇- ben.-sim. pref. (6.5) + *hak cross i. verb stem, or *hak break t. verb stem + -⁹o⁹y repet. suf. (6.14) + -i nom. suf. (10.9)
- 90. #i. p. pref. (7.2) + *nam say + -?a?y ind. suf. (6.17) + -ta* pas. suf. (8.6) + -p inc. suf. (8.9)
- 91. dem. at.
- 92. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *ku?t eat + -?a?y ind. suf. (6.17) + -pa inc. suf. (8.9)
- 93. ?i-3d. per. pos. p. pref. (11.1) + ¢ókoy liver (the liver is the seat of the spirit)
- 94. tan- 1st. per. incl. pl. t. p. pref. (7.5) + ?ak- caus. pref. (6.6) + *ka? die + -pa inc. suf. (8.9); lim. incl. pl. (8.4)

- 95. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + &am much + *wat do + -ne? perf. suf. (8.3) + -om tem. enc. (15.2); comp. verb (6.34)
- 96. # i. p. pref. (7.2) + *no? burn + *keh appear + -ta* pas. suf. (8.6); comp. verb set afire, (6.25)
- 97. Sp. "si" + "iga conj. that > if
- 98. certain, intensifier
- 99. # i. p. pref. (7.2) + *hips burn + -pa inc. suf. (8.9)
- 100. right away, tensor
- 101. # i. p. pref. (7.2) + *ka? die, + # compl. suf. (8.9)
- 102. hukt- comb. form of húkta fire + -hom loc. suf. (12.5)
- 103. hem dem. adv. there + -um lim. encl. (15.2)
- 104. # i. p. pref. (7.2) + *?i·š see + -ta· pas. suf. (8.6)
- 105. st. verb. (7.4), much used idiom which has resisted complete analysis; hava manly
- 106. ?i- 3d. per. sub. and obj. t. p. pref. (7.5) + *?i-š see + -yah 3d. per. pl. suf. (8.4) + # compl. suf. (8.9)
- 107. ?i- 3d. per. pos. p. pref. (11.1) + tum indef. art. and cardinal enumerative one + -pay quant. suf. (13.8); pron. enumeration (14.4)
- 108. náwat witch + -yah 3d. per. pl. suf. (12.2)
- 109. # i. p. pref. (7.2) + *kuη fear + -yah 3d. per. pl. suf. (8.4) + -om lim. encl. (15.2)
- 110. # i. p. pref. (7.2) + *no? burn + -yah 3d. per. pl. suf.(8.4) + -ta* pas. suf. (8.6) + -p inc. suf. (8.9)
- 111. # i. p. pref. (7.2) + ku- purp. pref. (6.4) + *yah finish + # compl. suf. (8.9)
- 112. Sp. "cuento"

VOCABULARY

The vocabulary here given consists, with a few exceptions, of simple stem themes of verbs and substantives. The exceptions are chiefly a few reduplicated stems, such as pópo white, and bound stems with affixes, such as anmát speak. The other two word classes, pronouns and enumeratives, are

omitted entirely, since all words of these classes are listed in the discussion in morphology (sections 9 and 14). When the translation of a word might lead to confusion, the original Spanish (in some cases, actually Aztec) is included in parenthesis.

Verbs		Verbs—Continued		Verbs—Continued	
answer	*¢0η	boil	*yu·m	cry	*weh
arise	*¢ukúm	borrow	*nuks	cut down	$*t\Lambda\eta$
arrive	*nuk	break	*kiŧ	dampen	*muh
ascend, climb	*ki?m	bud	*¢u?m	ache, hurt	*toy
ask	*wa?k	burn	*no?	anger	*ho?y
awaken	*yu·s	burn (with large flame)_	*yot	deceive	*mag6?y
bark	*wok	carry (on head in a	*¢AY	descend	*ket
bathe	*čiη	basket)		$dig_{}$	*he?n
be, live, exist	*?iť	charge	*¢e?k	dig, excavate	*tah
be able	*w^?4.	chop down	*wA·t	drink	*?uk
be born	*nay	close	*?aymíč	drink water	*n^?k
bear, endure	*?ankíy	collect	*¢ek	drip	*wa¢
beat (Sp. "as a drum")_	*taks	come	*miñ	dry	*tn¢
become fat	*p^.	cook	*?uh	eat	*ku?t
begin	*moh	copulate	*maŋ	eat	*k^?s
belch	*? _{\Lambda} ?y	cough		eat (dine)	*wi?k
believe	*?anhám	cover	*?aŋû?¢	embrace	*nu?s
bite		cover (with mud)	*¢At	emerge	*put
$blow_{}$	*suh	cross	*hak	enter	*tagáy

Verbs-	Con	tini	ied
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Verbs-Continued

Verbs—Continued

fall	*¢ut	push	*yak	touch	*¢Ak
fan, wave		put on	*?akká?m	touch lightly	*piñ
fear	`kA'n	raise	*ea:m	tremble	*y^?s
feel dizzy	*su·sá·	remain	*¢^?y	turn, return	
fight	+?aná.	remove, undress	*¢o?t	twist	*wi?ť
fine	*mo¢	request, ask for	*wa?k	untie	*wih
finish	*yah	rest	*heh	vomit	*?^¢
fold		return, turn	*se·t	walk	*wiť
fold	-	revive	*pa·s	wash	
fry	*ma?t	ripen	*k \(\Dag{\eta} \)	weave	
fry, cook		run	*poy	whistle	
gather		say	*nAm	work.	*vo·šá·
get, take	*pak	scrape	*meh	wound	P.
• ,	_	scratch	*éuks	wrestle	
go		search	*me?¢	W/63110	Pull
go along (andar)			*ma?v	Substantives	
go out	*put	sell		Duostantives	
grasp		send	*ku¢át	a little	2550
grasp		serve	*tek		
grind	*way	sew	*nu?n	a little while ago	
grow		shell corn	*?nks	above	yukma
harvest	*	shine	*¢ok	agave fiber(Sp."ixtle")_	nawin
heat	*pih	shoot (with bow and	*tAp	aguardiente	
hide	*nek	arrow)		alligator	
hide	*yam	sing	*Wa.n	also	[?] éya
hit, beat	*naks	sit	*koñ	also	
hit	*y^?k	sleep	*1110 η	angry	¢ó?ti
hunt, shoot	*tuh	smell	*k^n	ant	
jump	$*m_{\Lambda}?_{\eta}$	$smell____$	*su?k	(an) ant (Sp. "arrie-	núku
jump	*v0?v	sow	*ñip	ro'')	
kcep	0 0	speak	*hay	armadillo	na¢
kick		speak	" unmat	armpit	šáka
know		spin	. w	atole	
lack	•	spit	*éuh	aunt	
lasso, fish with a line	*suy	split	P ·	back (between shoul-	
laugh	*šik	split, give birth		ders)	
leave	*¢ak	spread out	*to?k	bamboo (Sp. "otate") -	?6hwiñ
lend	*kak	steal		banana	
	*ne?m	stop		basket	
licklie on one's side		strain, filter		basket, large type	
			-	bat	
light	*¢ok	stretch out		bean	
listen		stretch one's skin		beard	
lock up		succeed		bed	
look		suck			
lose		suck (as a baby), kiss		big	
make, do		suffer	*ya?ačá·	bird	
make noise		swell		() (I	?ámay
make tortillas	*toh	sweep		zontle'')	41 71 -
marry	*?anko?má?y	swim	*	birthmark	¢úktiñ
meet	*pat	take a walk	*ho·y	bitter	
meet together	*?antu?má·	take out		black	
mix, stick together	*¢ah	take out fish with a net_	*mak	$blanket_{}$	
need, want	*su·n	tell stories	*may	blood	ná?piñ
paint	*tok	think	*ha's	blouse	?ása
pass	*na·s	test	*kips	blue, green	
pay		throw	*pa¢	bone, seed	pak
pinch		tie	_	bow	
play		tie up		breast, teat	núnu
pluck (fruit)		tire		brother-in-law	
puncture	*¢e.11	toast		butterfly	
	7. 1			* 3	

Substantives—Con	tinued	Substantives—Con	tinued	Substantives—Con	tinued
camole	man	god mother	?6ko	much	?ága
canoe	?á·ha	good, pretty, nice	$W\Lambda^*$	much	há?yan
cattle, bull	šiš	gopher (Sp. "tusa")	tx?pič	mud	
certain	mop	grass	só ti	mushrooms	nóno
certain	núma	grass		name	náyi
chest	¢ókwiñ	griddle (Sp. "comal")_	?ágaŋ	narrow	wáyay
chick	táka	guava		$navel_{}$	tú·no
chicken		gulley (Sp. "barran-	?anháka?	near	nóko
chief	?anhagó?yi	ca'')		near	tó·mi
child	¢ ´A·ši	gum (Sp. "chicle")	ná?a	neck	kánka?
chile	ñíwi	hair_	way	nest	pé?ñi
circle, disk	wóyo	hand		$new_{}$	
cloud	?úksA	happy	máymay	$night_{}$	¢u?
cockroach		hawk	táhpi	nistamal	m6?si
cold	súksuk	head	k6·bak	no	da
cold	págak	head tumpline (Sp.	¢ámiš	nose	kí ñi
cold mist		"mecapal")		now	$s\lambda^{2}\lambda p$
incense (Sp. "copal")_	p6·ma	heel	¢Áh¢A	oak	soh
corpse	\$11°¢	(an) herb (Sp. "que-	¢ńpn	old	^
cotton	pú ki	lite'')		owner	
cradle	číča	here	y^9m	outside	[?] aηsλkmΛ
craufish		heron	wóhno	palm	súyat
crazy	ku?áši	hiceough		plain	$no\eta$
crowd	púhaη	honey	číňu	paper	tóto
custard apple	yá ti	honeyeomb	?6kwoη	path	$tu\eta$
daughter-in-law	sá·ki	horn	Wa·η	patio	?ánka?
deaf-mute		horsefly	pírňuh	penis	tútu
deep	h6hmA	house	tak	pig	
	ma°a	$hummingbird_{}$	túčti	pigeon	
dream		hunger	yú?u	pinole	
dust	pótpot	intestines	pú ⁹ u	plain	$no\eta$
ear	tárenk	jaguar (Sp. "tigre	tenát	post	kom
earth	nas	real'')		pot	
ϵgg_{-}		jealous		pozole	
face	wíňpak	joint, knee		pus, (a) boil	^
faded	póha	later		rabbit	
father		liver, spirit		rain	
feces		lizard, large variety		rattle	·
$fence_{}$		load	ésmi	raw	
field grass (Sp. "za-	mu?k	loft (Sp. "tapaneo")		red	
cate'')		long ago	wíňak	remedy	
fingernail, claw		lung		rock (Sp. "peña")	
fire	húktx	neacour		root	
firewood	kápi	machete		rubbish	púrči
fish	tá²pa	marden	wó·ñi	salt	
(a) fish (Sp. "mojar-	¢ó·wi	maize		sand	
ra")	47. 1	maize for seed		sandals, Pleiades	
flea	píštak	morn	-	scar	
flower	móya	many		sharp	
fodder	so?k	meat	•	shirt	
$f \circ g$		middle, in the		shrimp	
foot, leg	puy	milpa		sibling	
frog, toad		minnow		skin	
fruit		mirror		skirt	
(a) fruit (Sp. "pita-	писті	monkey		sky, fiesta	Ú.
haya'')	1.	moon		small	
fur, feather		mother	*	small pox	
gift		mountain		snake	
ghost	yA yI	mouth	пур	snail	suu

Substantives-Con	tinued	Substantives—Con	tinued	Substantives—Con	tinued
snail, large variety soft son son-in-law spindle whorl squash squirrel	pon mának má ⁹ at ší ⁴ ku pá ³ sun	tongue	tné ?á·ňi tú·ki a·tébet kuy	waist	mé?ši hókoš wé?nak na? tá?ksa náyi
stonestone wallstrongstup.id	tá?ňi pá·mi ?áksa	chote") tree gourd (Sp. "guaje") tree gourd (Sp.	pok hé·pe	(a) well whirlwind white wildcat (Sp. "tigre")	súkum pópo ka ₇
sun, day sweet swift tail tall, long	pá?ak pámi tu?¢ yága¢	"jícara") trousers turkey turtle twins	tú ⁹ nuk ťúki	windwingwitchcraftwomanwood tick	šah kutá?či yó·mo
tarantula that thick thin, shallow this (one) tobacco	pe ⁹ m tá ⁹ a¢ čéhče yá ⁹ p	uncle urine very, much vine vulture	°á·či ¢em ¢am ¢ay	wormyearyellowyesyesterday	¢ú?kiñ ?ámťu pú?uč ha

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